World-class research, pioneering partnerships, renowned faculty, and graduate students who enjoy a rich blend of academics, research, culture, and fun. This is graduate study at the University of Central Florida in one of the most dynamic metropolitan areas in the United States - Orlando, Florida.

**What’s New**

The University of Central Florida is the university that seeks opportunities, creates opportunities, and brings them to fruition. The University’s culture of opportunity is driven by the diverse people it attracts, its Orlando environment, its history of entrepreneurship, and its youth, relevance, and energy.

Here you will find the latest updates about the new master, doctoral, and specialist programs, certificates, fellowships, and more. Check here and often to find out what’s new in the UCF College of Graduate Studies.

**Graduate Degree Programs**

**Five** new graduate certificate programs were approved:

1. Guidance Control and Dynamics Graduate Certificate
2. Sustainable and Resilient Energy Systems Graduate Certificate
3. Smart Cities Graduate Certificate
4. Survey Research Graduate Certificate
5. Network Analysis and Applications Graduate Certificate

**Ten** new graduate degree tracks were created in the following programs:

1. Electrical Engineering MSEE, Guidance Control and Dynamics Track
2. Teacher Education MAT, World Languages Education with ESOL Endorsement Track
3. Civil Engineering MS, Structural and Geotechnical Engineering Accelerated BS to MS Track
4. Civil Engineering MS, Transportation Systems Engineering Accelerated BS to MS Track
5. Civil Engineering MS, Water Resources Engineering Accelerated BS to MS Track
6. Civil Engineering MSE, Accelerated BS to MSCE Track
7. Civil Engineering MSCE, Construction Engineering Accelerated BS to MSCE Track
8. Environmental Engineering MS, Accelerated BS to MS Track
9. Environmental Engineering MSEnvE, Accelerated BS to MSEnvE
10. Athletic Training MAT, UCF BS to UCF MAT Track

Other changes occurred in the following programs:

- Social Work MSW, Orlando Full-Time Advanced Standing Track has changed its name to Social Work MSW, Full-Time Advanced Standing Track.
- Social Work MSW, Orlando Full-Time Track has changed its name to Social Work MSW, Full-Time Track.
- Social Work MSW, Orlando Part-Time Advanced Standing Track has changed its name to Social Work MSW, Part-Time Advanced Standing Track.
- Social Work MSW, Orlando Part-Time Track has changed its name to Social Work MSW, Part-Time Track.
- The Feature Film Production MFA has been reactivated.

**Important Information**

This catalog contains a description of the various policies, graduate programs, degree requirements, course offerings, and related matters intended to be in effect at the University of Central Florida during the 2020-2021 academic year. However, any matter described in this catalog is subject to change. As a result, statements in this Graduate Catalog may not be regarded in the nature of binding obligations on the institution or the State of Florida, or as an irrevocable commitment from the University to the reader.
Table Of Contents

Table Of Contents ............................... 2
About UCF ........................................ 16
Overview .......................................... 16
Mission Statement .............................. 16
UCF Story .......................................... 16
   Graduate Education that Creates Opportunities ........................................... 16
   Centers of Excellence .............................................................................. 17
   Pride in Accomplishments ...................................................................... 17
      Campus Accomplishments .................................................................... 17
      Notable Research .............................................................................. 17
   Degrees of Distinction ........................................................................... 18
   International Impact .............................................................................. 18
   Strength in Diversity and Inclusiveness ............................................... 18
   Partnerships and Community Service .................................................. 18
   Orlando and Beyond .............................................................................. 19
   Virtual Campus ....................................................................................... 19
   UCF Athletics .......................................................................................... 19
   Central Florida—A great place to be ..................................................... 19
   UCF—A Time of Opportunity ................................................................. 19
Facts ......................................................... 19
   About the University .............................................................................. 20
   About UCF Graduate Students ............................................................. 20
   Financial Support for Graduate Students ............................................ 20
   Research Activities 2020 ...................................................................... 21
   UCF Centers and Institutes Research .................................................. 21
   College Research .................................................................................... 21
State of Florida Board of Governors .................................................. 21
University of Central Florida Board of Trustees .................................... 21
University of Central Florida Administration ........................................... 22
   Office of the Provost and Vice President of Academic Affairs .......... 22
   Office of the Vice President for Student Development and Enrollment Services (SDES) .......................... 23
   Office of the Vice President for Research and Dean of the College of Graduate Studies .............................................. 23
   Office of the Vice Provost for Division Student Learning and Academic Success and Dean of the College of Undergraduate Studies ................................................. 24
   Office of Vice President for Government & Community Relations ........ 24
Colleges ......................................................... 25
UCF has 11 Colleges that offer Graduate Education to our students. Click on the pictures for more details. ................................................................. 25
College of Graduate Studies .................................................................. 30
Overview ............................................................................................... 31
Mission Statement .................................................................................. 31
   About Our Mission ................................................................................ 31
College of Graduate Studies Leadership .................................................. 32
Graduate Council ...................................................................................... 32
College Graduate Associate Deans .............................................................. 32
Graduate Program Directors ......................................................................... 32
Graduate Faculty and Graduate Faculty Scholars ........................................ 32
University-Wide Qualifications for Participation in Graduate Education ..... 32
   A.1: Faculty Roles in Graduate Education .................................................. 33
   B.1: Graduate Program Committees ....................................................... 33
   B.2: Qualifications for Serving on Graduate Program Committees ............. 33
   C.1: The Graduate Faculty ..................................................................... 33
   C.2: Eligibility Criteria for Service as Chairs of Thesis and Dissertation Committees ....................................................... 34
Accelerated Undergraduate and Graduate Programs .......................... 77
Advisement .................................................................................. 77
Conferral of Master’s Degrees for Students in Doctoral Degree Programs ........................................................................... 77
Course Requirements .................................................................. 77
Master’s Admission Requirements .................................................. 78
Other Academic Requirements ......................................................... 78
Senior Scholars .......................................................................... 78
Thesis Requirements .................................................................... 78
Time Limitation for Degree Completion ........................................... 80

6. Graduate Certificate Program Policies ......................................... 81
Certificate Program Admission Requirements ................................. 81
Certificate Programs Purpose .......................................................... 81
Completion of Graduate Certificate .................................................. 81
Course Requirements and Loads ....................................................... 81
Time Limitation for Certificate Completion ...................................... 82

7. International Graduate Student Policies ...................................... 82
English-speaking Ability for Graduate Teaching Associates and Assistants ........................................................................... 82
Full-time Enrollment Requirements .................................................. 83
International Student Employment .................................................... 83
International Visiting Scholars ......................................................... 83
Linkage Agreements .................................................................... 84

Programs ....................................................................................... 89

Global Health and Public Affairs Graduate Certificate .................. 89
Mathematics and Science Educator Graduate Certificate ................ 89

College of Arts and Humanities ..................................................... 89

Cognitive Sciences Graduate Certificate ......................................... 89
Creative Writing MFA .................................................................... 91
Emerging Media MFA ................................................................... 95
Emerging Media MFA - Emerging Media MFA, Animation and Visual Effects Track ............................................................. 97
Emerging Media MFA - Emerging Media MFA, Studio Art and Design Track ................................................................. 100
English MA .................................................................................. 105
English MA - English MA, Literary, Cultural, and Textual Studies Track ........................................................................... 106
English MA - English MA, Technical Communication Track .......... 110
English, Rhetoric and Composition MA ............................................ 114
Ethics, Theoretical and Applied Graduate Certificate .................... 118
Gender Studies Graduate Certificate .............................................. 120
History MA .................................................................................. 122
History MA - History MA, Accelerated Graduate Program Track .... 126
History MA - History MA, Public History Track ............................... 130
Music MA .................................................................................... 135
Professional Writing Graduate Certificate ....................................... 139
Spanish MA .................................................................................. 141
Teaching English as a Foreign Language Graduate Certificate ......... 145
Teaching English to Speakers of Other Languages (TESOL) MA ...... 147
Texts and Technology PhD ............................................................. 151
Theatre MA .................................................................................. 159
Theatre MFA ................................................................................ 164
Theatre MFA - Theatre MFA, Acting Track ........................................... 165
Theatre MFA - Theatre MFA, Theatre for Young Audiences Track ........................................................................... 170
Theatre MFA - Theatre MFA, Themed Experience Track ............... 174
Themed Experience MS ................................................................. 178

College of Business Administration .............................................. 181

Accounting MSA .......................................................................... 181
Accounting MSA - Accounting MSA, Assurance Track ................ 183
Accounting MSA - Accounting MSA, Management Track ............. 186
Accounting MSA - Accounting MSA, Taxation Track .................... 189
Business Administration MBA ...................................................... 192
Business Administration MBA - Business Administration MBA, Evening Track ................................................................. 194
Business Administration MBA - Business Administration MBA, Executive Track ................................................................. 198
Business Administration MBA - Business Administration MBA, Professional Track ............................................................... 201
Business Administration PhD ........................................................ 204
Business Administration PhD - Business Administration PhD, Accounting Track ................................................................. 205
Business Administration PhD - Business Administration PhD, Finance Track ................................................................. 209
Business Administration PhD - Business Administration PhD, Management Track ................................................................. 212
Business Administration PhD - Business Administration PhD, Marketing Track ........................................ 215
Cyber Risk Management Graduate Certificate ................................................................................. 218
Economics MS .................................................................................................................................. 220
Entrepreneurship Graduate Certificate .......................................................................................... 222
FinTech Graduate Certificate ......................................................................................................... 224
FinTech MS ....................................................................................................................................... 225
Management MSM .......................................................................................................................... 229
Management MSM - Management MSM, Business Analytics Track ............................................... 230
Management MSM - Management MSM, Entrepreneurship Track .............................................. 233
Management MSM - Management MSM, Human Resources Track ............................................ 235
Management MSM - Management MSM, Integrated Business Track ........................................ 238
Real Estate MSRE ............................................................................................................................ 242
Sport Business Management MSBM ............................................................................................. 244
Taxation MST ................................................................................................................................)... 248
Technology Ventures Graduate Certificate ...................................................................................... 250

College of Community Innovation and Education ........................................................................ 251
Academic Advising Graduate Certificate ......................................................................................... 251
Advanced Quantitative Methodologies in Educational and Human Sciences Graduate Certificate 253
Applied Behavior Analysis Graduate Certificate ............................................................................. 254
Applied Learning and Instruction MA .......................................................................................... 256
Autism Spectrum Disorders Graduate Certificate ......................................................................... 261
Career and Technical Education MA .............................................................................................. 263
Career Counseling Graduate Certificate ......................................................................................... 267
Collaborative Intervention Specialist Graduate Certificate ........................................................... 269
College Teaching and Leadership Graduate Certificate ............................................................... 270
Conflict Resolution and Analysis Graduate Certificate ............................................................... 271
 Corrections Leadership Graduate Certificate .................................................................................. 273
Counselor Education MEd .................................................................................................................. 275
Counselor Education MEd - Counselor Education MEd, School Counseling Track .................. 277
Counselor Education MA .................................................................................................................. 280
Counselor Education MA - Counselor Education MA, Clinical Mental Health Counseling Track 282
Counselor Education MA - Counselor Education MA, School Counseling Track ....................... 286
Crime Analysis Graduate Certificate ............................................................................................. 290
Criminal Justice Executive Graduate Certificate ............................................................................ 292
Criminal Justice MS ......................................................................................................................... 294
Criminal Justice MS - Criminal Justice MS, Public Administration MPA Dual Degree Track ..... 297
Criminal Justice PhD ......................................................................................................................... 301
Curriculum and Instruction EdD ........................................................................................................ 305
Curriculum and Instruction MEd ....................................................................................................... 308
Curriculum and Instruction MEd - Curriculum and Instruction MEd, Art Education Track .......... 310
Curriculum and Instruction MEd - Curriculum and Instruction MEd, Curriculum Leadership Track 312
Curriculum and Instruction MEd - Curriculum and Instruction MEd, Educational Technology Track 314
Curriculum and Instruction MEd - Curriculum and Instruction MEd, Gifted Education Track ....... 317
Curriculum and Instruction MEd - Curriculum and Instruction MEd, Global, International and Comparative Education Track 319
Curriculum and Instruction MEd - Curriculum and Instruction MEd, Intervention Specialist Track 322
Curriculum and Instruction MEd - Curriculum and Instruction MEd, Supporting High Needs Populations Track 324
Dual Language Graduate Certificate .................................................................................................. 327
e-Learning Design, Development, and Delivery Graduate Certificate ........................................... 328
Early Childhood Development and Education MS ....................................................................... 329
Education EdS .................................................................................................................................. 333
Education EdS - Education EdS, Master’s +30 Track ..................................................................... 334
Education EdS - Education EdS, School Counseling Track ............................................................ 336
Education PhD .................................................................................................................................... 340
Education PhD - Education PhD, Communication Sciences and Disorders Track .................. 342
Education PhD - Education PhD, Counselor Education Track ....................................................... 345
Education PhD - Education PhD, Early Childhood Track .............................................................. 349
Education PhD - Education PhD, Elementary Education Track .................................................... 352
Education PhD - Education PhD, Exceptional Education Track .................................................... 356
Education PhD - Education PhD, Higher Education Track ............................................................ 359
Education PhD - Education PhD, Instructional Design and Technology Track ............................ 363
Education PhD - Education PhD, Learning Sciences Track ............................................................ 366
Education PhD - Education PhD, Mathematics Education Track .................................................. 370
Education PhD - Education PhD, Methodology, Measurement and Analysis Track ................ 374
Education PhD - Education PhD, Reading Education Track ........................................................... 377
Education PhD - Education PhD, Science Education Track ............................................................ 381
Education PhD - Education PhD, Social Science Education Track ................................................. 384
<table>
<thead>
<tr>
<th>Educational Leadership EdD - Educational Leadership EdD, Executive Track</th>
<th>394</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Leadership EdD - Educational Leadership EdD, Higher Education Track</td>
<td>397</td>
</tr>
<tr>
<td>Educational Leadership EdS</td>
<td>400</td>
</tr>
<tr>
<td>Educational Leadership MEd</td>
<td>403</td>
</tr>
<tr>
<td>Educational Leadership MA</td>
<td>406</td>
</tr>
<tr>
<td>Educational Leadership MA - Educational Leadership MA, Higher Education/College Teaching and Leadership Track</td>
<td>409</td>
</tr>
<tr>
<td>Educational Leadership MA - Educational Leadership MA, Higher Education/Student Personnel Track</td>
<td>411</td>
</tr>
<tr>
<td>Educational Leadership MA - Educational Leadership MA, Student Athlete Support Services Track</td>
<td>414</td>
</tr>
<tr>
<td>Educational Program Evaluation Graduate Certificate</td>
<td>416</td>
</tr>
<tr>
<td>Elementary Education MEd</td>
<td>417</td>
</tr>
<tr>
<td>Elementary Education MA</td>
<td>422</td>
</tr>
<tr>
<td>Emergency and Crisis Management MECM</td>
<td>425</td>
</tr>
<tr>
<td>Emergency Management and Homeland Security Graduate Certificate</td>
<td>429</td>
</tr>
<tr>
<td>ESOL Endorsement K-12 Graduate Certificate</td>
<td>431</td>
</tr>
<tr>
<td>Exceptional Student Education K-12 MA</td>
<td>433</td>
</tr>
<tr>
<td>Exceptional Student Education MEd</td>
<td>437</td>
</tr>
<tr>
<td>Exercise Physiology, Education PhD</td>
<td>440</td>
</tr>
<tr>
<td>Fundraising Graduate Certificate</td>
<td>443</td>
</tr>
<tr>
<td>Gifted Education Graduate Certificate</td>
<td>445</td>
</tr>
<tr>
<td>Global, International and Comparative Education Graduate Certificate</td>
<td>447</td>
</tr>
<tr>
<td>Health Administration MHA</td>
<td>449</td>
</tr>
<tr>
<td>Health Administration MHA - Health Administration MHA, Executive Health Services Administration Track</td>
<td>449</td>
</tr>
<tr>
<td>Health Administration MHA - Health Administration MHA, Health Services Administration Track</td>
<td>453</td>
</tr>
<tr>
<td>Health Care Informatics MS, Professional Science Master’s</td>
<td>456</td>
</tr>
<tr>
<td>Health Information Administration Graduate Certificate</td>
<td>459</td>
</tr>
<tr>
<td>Housing and Residence Life Graduate Certificate</td>
<td>461</td>
</tr>
<tr>
<td>Initial Teacher Professional Preparation Graduate Certificate</td>
<td>463</td>
</tr>
<tr>
<td>Instructional Design and Technology MA</td>
<td>465</td>
</tr>
<tr>
<td>Instructional Design and Technology MA - Instructional Design and Technology MA, e-Learning Track</td>
<td>466</td>
</tr>
<tr>
<td>Instructional Design and Technology MA - Instructional Design and Technology MA, Educational Technology Track</td>
<td>469</td>
</tr>
<tr>
<td>Instructional Design and Technology MA - Instructional Design and Technology MA, Instructional Systems Track</td>
<td>473</td>
</tr>
<tr>
<td>Instructional Design for Simulations Graduate Certificate</td>
<td>477</td>
</tr>
<tr>
<td>Instructional Design Graduate Certificate</td>
<td>479</td>
</tr>
<tr>
<td>Instructional/Educational Technology Graduate Certificate</td>
<td>480</td>
</tr>
<tr>
<td>Interdisciplinary Language and Literacy Intervention Graduate Certificate</td>
<td>481</td>
</tr>
<tr>
<td>Juvenile Justice Leadership Graduate Certificate</td>
<td>483</td>
</tr>
<tr>
<td>K-8 Mathematics and Science Education MEd</td>
<td>485</td>
</tr>
<tr>
<td>Local Director of Career and Technical Education Graduate Certificate</td>
<td>488</td>
</tr>
<tr>
<td>Marriage, Couple, and Family Therapy Graduate Certificate</td>
<td>490</td>
</tr>
<tr>
<td>Marriage, Couple, and Family Therapy MA</td>
<td>492</td>
</tr>
<tr>
<td>Nonprofit Management Graduate Certificate</td>
<td>495</td>
</tr>
<tr>
<td>Nonprofit Management Graduate Certificate - Nonprofit Management Graduate Certificate, Out of State Cohort Track</td>
<td>498</td>
</tr>
<tr>
<td>Nonprofit Management MNM</td>
<td>499</td>
</tr>
<tr>
<td>Nonprofit Management MNM - Nonprofit Management MNM, Out of State Cohort Track</td>
<td>503</td>
</tr>
<tr>
<td>Nonprofit Management MNM - Nonprofit Management MNM, Public Administration MPA Dual Degree Track</td>
<td>506</td>
</tr>
<tr>
<td>Play Therapy Graduate Certificate</td>
<td>510</td>
</tr>
<tr>
<td>Police Leadership Graduate Certificate</td>
<td>511</td>
</tr>
<tr>
<td>Prekindergarten Disabilities Graduate Certificate</td>
<td>513</td>
</tr>
<tr>
<td>Public Administration Graduate Certificate</td>
<td>515</td>
</tr>
<tr>
<td>Public Administration MPA</td>
<td>517</td>
</tr>
<tr>
<td>Public Administration MPA - Public Administration MPA, Criminal Justice MS Dual Degree Track</td>
<td>520</td>
</tr>
<tr>
<td>Public Administration MPA - Public Administration MPA, Nonprofit Management MNM Dual Degree Track</td>
<td>524</td>
</tr>
<tr>
<td>Public Affairs PhD</td>
<td>527</td>
</tr>
<tr>
<td>Public Affairs PhD - Public Affairs PhD, Criminal Justice Track</td>
<td>533</td>
</tr>
<tr>
<td>Public Affairs PhD - Public Affairs PhD, Governance and Policy Research Track</td>
<td>538</td>
</tr>
<tr>
<td>Public Affairs PhD - Public Affairs PhD, Health Services Management and Research Track</td>
<td>542</td>
</tr>
<tr>
<td>Public Affairs PhD - Public Affairs PhD, Public Administration MPA Dual Degree Track</td>
<td>548</td>
</tr>
<tr>
<td>Public Affairs PhD - Public Affairs PhD, Public Administration Track</td>
<td>553</td>
</tr>
<tr>
<td>Public Affairs PhD - Public Affairs PhD, Social Work Track</td>
<td>558</td>
</tr>
<tr>
<td>Public Budgeting and Finance Graduate Certificate</td>
<td>563</td>
</tr>
<tr>
<td>Public Policy Analysis Graduate Certificate</td>
<td>565</td>
</tr>
<tr>
<td>Public Policy MPP</td>
<td>567</td>
</tr>
<tr>
<td>Reading Education Graduate Certificate</td>
<td>571</td>
</tr>
</tbody>
</table>
Reading Education MEd
Research Administration Graduate Certificate
Research Administration MRA
School Psychology EdS
Secondary Education MEd
Secondary Education MEd - Secondary Education MEd, English Language Arts Education Track
Secondary Education MEd - Secondary Education MEd, Mathematics Education Track
Secondary Education MEd - Secondary Education MEd, Science Education Track
Secondary Education MEd - Secondary Education MEd, Social Science Education Track
Secondary Education MEd - Secondary Education MEd, World Languages Education Track
Social Justice in Public Service Graduate Certificate
Social Science Education Graduate Certificate
Special Education Graduate Certificate
Student Athlete Support Services Graduate Certificate
Supporting High Needs Populations Graduate Certificate
Teacher Education MAT
Teacher Education MAT - Teacher Education MAT, Art Education Track
Teacher Education MAT - Teacher Education MAT, English Language Arts Education with ESOL Endorsement Track
Teacher Education MAT - Teacher Education MAT, Mathematics Education Track
Teacher Education MAT - Teacher Education MAT, Middle School Mathematics Education Track
Teacher Education MAT - Teacher Education MAT, Middle School Science Education Track
Teacher Education MAT - Teacher Education MAT, Science Education-Biology Track
Teacher Education MAT - Teacher Education MAT, Science Education-Chemistry Track
Teacher Education MAT - Teacher Education MAT, Science Education-Physics Track
Teacher Education MAT - Teacher Education MAT, Social Science Education Track
Teacher Education MAT - Teacher Education MAT, World Languages Education with ESOL Endorsement Track
Urban and Regional Planning Graduate Certificate
Urban and Regional Planning MS
World Languages Education - English for Speakers of Other Languages (ESOL) Graduate Certificate
World Languages Education - Languages Other Than English (LOTE) Graduate Certificate
College of Engineering and Computer Science
Aerospace Engineering MSAE
Aerospace Engineering MSAE - Aerospace Engineering MSAE, Accelerated BS to MSAE Track
Aerospace Engineering MSAE - Aerospace Engineering MSAE, Biofluids Track
Aerospace Engineering MSAE - Aerospace Engineering MSAE, Biomechanics Track
Aerospace Engineering MSAE - Aerospace Engineering MSAE, Guidance Control and Dynamics Track
Aerospace Engineering MSAE - Aerospace Engineering MSAE, Space Systems Design and Engineering Track
Aerospace Engineering MSAE - Aerospace Engineering MSAE, Thermofluid Aerodynamic Systems Design and Engineering Track
Aerospace Engineering PhD
Applied Operations Research Graduate Certificate
Biomedical Engineering MSBME
Biomedical Engineering MSBME - Biomedical Engineering MSBME, Accelerated BS to MSBME Track
Biomedical Engineering MSBME - Biomedical Engineering MSBME, Biofluids Track
Biomedical Engineering MSBME - Biomedical Engineering MSBME, Biomechanics Track
Biomedical Engineering MSBME - Biomedical Engineering MSBME, MD/MSBME Track
Civil Engineering MS
Civil Engineering MS - Civil Engineering MS, Smart Cities Track
Civil Engineering MS - Civil Engineering MS, Structural and Geotechnical Engineering Accelerated BS to MS Track
Civil Engineering MS - Civil Engineering MS, Structural and Geotechnical Engineering Track
Civil Engineering MS - Civil Engineering MS, Transportation Systems Engineering Accelerated BS to MS Track
Civil Engineering MS - Civil Engineering MS, Transportation Systems Engineering Track
Civil Engineering MS - Civil Engineering MS, Water Resources Engineering Accelerated BS to MS Track
Civil Engineering MS - Civil Engineering MS, Water Resources Engineering Track
Civil Engineering MSCE
Civil Engineering MSCE - Civil Engineering MSCE, Accelerated BS to MSCE Track
Civil Engineering MSCE - Civil Engineering MSCE, Construction Engineering Accelerated BS to MSCE Track
Civil Engineering PhD
Computer Engineering MSCpE
Computer Engineering MSCpE - Computer Engineering MSCpE, Accelerated BS to MSCpE Track
Computer Engineering PhD
Computer Forensics Graduate Certificate
Computer Forensics Graduate Certificate - Computer Forensics, Out of State Cohort Track Graduate Certificate
Computer Science MS
Computer Science MS - Computer Science MS, Accelerated BS to MS Track
Computer Science PhD
Computer Vision MS
Cyber Security and Privacy MS
Data Analytics Graduate Certificate
Data Analytics MS 777
Design for Usability Graduate Certificate 779
Digital Forensics MS 781
Electrical Engineering MSE 785
Electrical Engineering MSE - Electrical Engineering MSE, Accelerated BS to MSE Track 789
Electrical Engineering MSE - Electrical Engineering MSE, Guidance Control and Dynamics Track 793
Electrical Engineering PhD 797
Engineering Management MSE 802
Engineering Management MSE - Engineering Management MSE, Professional Project and Systems Engineering Track 805
Environmental Engineering MS 808
Environmental Engineering MS - Environmental Engineering MS, Accelerated BS to MS Track 810
Environmental Engineering MS - Environmental Engineering MS, Environmental Engineering Sciences Track 814
Environmental Engineering MSEnvE 818
Environmental Engineering MSEnvE - Environmental Engineering MSEnvE, Accelerated BS to MSEnvE 822
Environmental Engineering PhD 826
Guidance Control and Dynamics Graduate Certificate 830
Healthcare Systems Engineering Graduate Certificate 832
Industrial Engineering MS 835
Industrial Engineering MS - Industrial Engineering MS, Healthcare Systems Engineering Track 840
Industrial Engineering MSE 843
Industrial Engineering MSE - Industrial Engineering MSE, Accelerated BS to MSE Track 847
Industrial Engineering PhD 851
Materials Science and Engineering MSMSE 856
Materials Science and Engineering MSMSE - Materials Science and Engineering MSMSE, Accelerated BS to MSMSE Track 860
Materials Science and Engineering PhD 864
Mechanical Engineering MSE 867
Mechanical Engineering MSME 869
Mechanical Engineering MSME - Mechanical Engineering MSME, Accelerated BS to MSME Track 872
Mechanical Engineering MSME - Mechanical Engineering MSME, Guidance Control and Dynamics Track 876
Mechanical Engineering MSME - Mechanical Engineering MSME, Mechanical Systems Track 879
Mechanical Engineering PhD 883
Mixed Reality Engineering Graduate Certificate 887
Project Engineering Graduate Certificate 889
Quality Assurance Graduate Certificate 890
Smart Cities Graduate Certificate 892
Structural Engineering Graduate Certificate 893
Sustainable and Resilient Energy Systems Graduate Certificate 895
Systems Engineering Graduate Certificate 897
Systems Engineering, MSSE 898
Technologies for Smart Communities Graduate Certificate 902
Training Simulation Graduate Certificate 904
Transportation Engineering Graduate Certificate 905
Travel Technology and Analytics MS 907
College of Graduate Studies 910
Geographic Information Systems Graduate Certificate 910
Interdisciplinary Studies MA 913
Interdisciplinary Studies MA - Interdisciplinary Studies MA, Nonthesis Track 913
Interdisciplinary Studies MA - Interdisciplinary Studies MA, Thesis Track 917
Interdisciplinary Studies MS 920
Interdisciplinary Studies MS - Interdisciplinary Studies MS, Nonthesis Track 920
Interdisciplinary Studies MS - Interdisciplinary Studies MS, Thesis Track 924
Modeling and Simulation MS 927
Modeling and Simulation of Behavioral Cybersecurity Graduate Certificate 934
Modeling and Simulation of Technical Systems Graduate Certificate 936
Modeling and Simulation of Technical Systems Graduate Certificate - Modeling and Simulation of Technical Systems, In State Cohort Track Graduate Certificate 936
Modeling and Simulation of Technical Systems Graduate Certificate - Modeling and Simulation of Technical Systems, Out of State Cohort Track Graduate Certificate 938
Modeling and Simulation PhD 939
Nanotechnology MS 946
Nanotechnology MS - Nanotechnology MS, Non-Thesis Track 949
Nondegree or Transient 952
College of Health Professions and Sciences 953
Aging Studies Graduate Certificate 953
Anatomical Sciences Graduate Certificate 954
Athletic Training MAT 956
<table>
<thead>
<tr>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic Training MAT - Athletic Training MAT, UCF BS to UCF MAT Track</td>
</tr>
<tr>
<td>Communication Sciences and Disorders MA</td>
</tr>
<tr>
<td>Communication Sciences and Disorders MA - Communication Sciences and Disorders MA, Accelerated BA/BS to MA Track</td>
</tr>
<tr>
<td>Communication Sciences and Disorders MA - Communication Sciences and Disorders MA, Consortium Track</td>
</tr>
<tr>
<td>Kinesiology MS</td>
</tr>
<tr>
<td>Kinesiology PhD</td>
</tr>
<tr>
<td>Medical Speech-Language Pathology Graduate Certificate</td>
</tr>
<tr>
<td>Military Social Work Graduate Certificate</td>
</tr>
<tr>
<td>Physical Therapy DPT</td>
</tr>
<tr>
<td>Social Work Administration Graduate Certificate</td>
</tr>
<tr>
<td>Social Work MSW</td>
</tr>
<tr>
<td>Social Work MSW - Social Work MSW, Full-Time Advanced Standing Track</td>
</tr>
<tr>
<td>Social Work MSW - Social Work MSW, Full-Time Traditional Track</td>
</tr>
<tr>
<td>Social Work MSW - Social Work MSW, Online Part-Time Advanced Standing Track</td>
</tr>
<tr>
<td>Social Work MSW - Social Work MSW, Online Part-Time Track</td>
</tr>
<tr>
<td>Social Work MSW - Social Work MSW, Part-Time Advanced Standing Track</td>
</tr>
<tr>
<td>Social Work MSW - Social Work MSW, Part-Time Traditional Track</td>
</tr>
<tr>
<td><strong>College of Medicine</strong></td>
</tr>
<tr>
<td>Biomedical Sciences MS</td>
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Overview

The University of Central Florida has come a long way since its inception in 1963. It is now a thriving, multi-campus university, with more than 71,500 students and more than 200 graduate degree programs. In addition to its physical growth, UCF has become a prominent player in graduate education nationwide, offering innovative corporate partnerships, world-renowned faculty, and cutting-edge research. "About UCF" describes the University and its mission. In addition, this section describes the people and offices that make up UCF—including university, college, and school administration.

Mission Statement

The University of Central Florida is a public multi-campus, metropolitan research university that stands for opportunity. The university anchors the Central Florida city-state in meeting its economic, cultural, intellectual, environmental and societal needs by providing high-quality, broad-based education and experienced-based learning; pioneering scholarship and impactful research; enriched student development and leadership growth; and highly relevant continuing education and public service initiatives that address pressing local, state, national, and international issues in support of the global community.

UCF Story

Graduate Education that Creates Opportunities
The University of Central Florida is one of the largest pre-eminent research universities in the country. Located in Orlando, one of the most dynamic metropolitan areas in the United States, UCF benefits from a diverse faculty and staff who create a welcoming environment. UCF is a university that creates and provides opportunities for students to grow, learn and succeed.

As central Florida’s higher-education partner, UCF plays a major role in the region’s fast-paced growth through its community and corporate partnerships, its research programs, and the talents of its more than 350,000 alumni, over 71,500 students, and more than 12,300 faculty and staff. As a metropolitan research university, UCF is committed to innovative community partnerships, world-class research with local impact, and the integration of technology and learning.

Centers of Excellence

UCF’s colleges include Arts and Humanities, Sciences, Business Administration, Community Innovation and Education, Engineering and Computer Science, Graduate Studies, Health Professions and Sciences, Hospitality Management, Medicine, Nursing, and Optics and Photonics.

The university’s internationally renowned colleges, centers and institutes include the College of Optics and Photonics/CREOL (Center for Research and Education in Optics and Lasers), Burnett School of Biomedical Sciences, the Rosen College of Hospitality Management, the Advanced Materials Processing and Analysis Center (AMPAC), the Biomolecular Science Center, the School of Modeling, Simulation and Training, Center for Research in Computer Vision, the Florida Solar Energy Center (FSEC), the NanoScience Technology Center, the National Center for Forensic Science, the Florida Space Institute, National Center for Integrated Coastal Research, The Townes Laser Institute, and the Florida Photonics Center of Excellence. For additional information regarding these centers and institutes and other research programs, visit www.research.ucf.edu/centers.html.

Pride in Accomplishments

The reputation of any educational institution is best reflected in the accomplishments of its students, faculty, and alumni—and for a university that’s now more than 50 years old, UCF has moved rapidly from promise to academic prominence.

Campus Accomplishments

- For the third year in a row, UCF has been recognized as one of the Most Innovative Schools by U.S. News & World Report (2020 Best Colleges).
- Twenty-seven UCF graduate programs were ranked in the top 100 in their respective fields by U.S. News & World Report's Best Graduate Schools of 2021. Among these are Homeland Security (2), Nonprofit Management (5), Optical - Physics (12), Student Counseling (13), Public Management (23), Criminal Justice (26), Public Affairs (38), Industrial Engineering (41), Healthcare Management (46), Aerospace Engineering (53), Materials Engineering (54), Speech-Language Pathology (55), Physical Therapy (57), Electrical Engineering (58), and Nursing (61), to name a few.
- UCF ranks 29th among public U.S. universities and 65th in the world for public and private universities in securing patents.
- UCF Downtown, UCF Lake Nona Medical Center and UCF Lake Nona Cancer Center provided new spaces for students to learn while gaining real-world experience.
- UCF is 1st in Florida and 3rd nationally for coveted National Science Foundation CAREER Grants.
- UCF’s Florida Interactive Entertainment Academy was named the No. 1 graduate-level video game design school in North America by The Princeton Review and PC Gamer magazine.
- The Rosen College of Hospitality Management is ranked No. 4 in the world among hospitality schools by CEOWorld magazine.

Notable Research
UCF researchers have developed a way to control the speed of light. Not only can they speed up a pulse of light and slow it down, but they can also make it travel backward.

A $20 million NASA grant was awarded to continue work in the area of asteroids at Arecibo Observatory in Puerto Rico. UCF took over the operation in 2018 with a $20 million NSF grant.

UCF’s RESTORES Clinic has become known nationally for its innovative PTSD treatment for veterans, active-duty military members, first responders, and other victims of trauma such as sexual assault and mass shootings.

A team of University of Central Florida researchers by using the principle of supersymmetry, have developed the first supersymmetric laser array. Their findings could have applications in surgery, drilling, and 3D laser mapping.

Sudipta Seal, an engineering professor and chair of UCF’s Department of Materials Science and Engineering, received the prestigious Materials Research Society Fellow award and the Lee Hsun Lecture Award from the Chinese Academy of Sciences’ Institute of Metal Research for his contributions to materials science research.

Degrees of Distinction

With 1,906 full-time faculty, the university offers 103 bachelor’s degrees, 91 master’s and MFA degrees, 3 specialist degrees, and 34 doctoral degrees as well as 103 graduate certificate programs and the Doctor of Medicine program.

The list of prominent alumni gets longer with each graduation ceremony. A sampler of notable alumni includes Jim Atchison, President and CEO, SeaWorld Parks and Entertainment; Michelle Akers, World Cup Soccer Athlete, Kevin Beary, former Sheriff, Orange County, Florida; Juanita Black, president, Mental Health Association of Central Florida; Fernando Calderiro, former NASA astronaut; Phil Dalhausser, Olympic Gold Medalist, volleyball; Ericka Dunlap, Miss America 2004; Alan Eustance, Google Senior Vice President of Engineering and Knowledge; Shaqueem Griffin, Linebacker, Seattle Seahawks; Shaquill Griffin, Cornerback, Seattle Seahawks; Cheryl Hines, actress; R. Glenn Hubbard, Dean, Columbia University Graduate School of Business; George Kalogridis, president, Walt Disney World Resort; Mark Miller, country music singer/songwriter, Sawyer Brown band; William W. Parsons, Jr., former Director, NASA’s John C. Stennis Space Center; Angel Ruiz, president and CEO, Ericsson North America; Nicole Stott, space shuttle astronaut; Daniel Tosh, standup comedian/television host, Blake Bortles, NFL Quarterback, Robert Damron, American Professional Golfer and Diplo, American DJ and record producer.

International Impact

UCF’s growing cadre of international students adds both diversity and global connections to the Central Florida community. More than 130 countries—most notably China, India, Brazil, Vietnam, Bangladesh, Venezuela, and Colombia—are represented in the student body, and faculty research is taking place in areas ranging from South America to the Arctic polar ice cap.

UCF has 200+ study and research agreements with institutions in over 60 countries—providing learning and research opportunities for students and faculty in countries ranging from the Udmurt Republic to South Africa. The university’s Eastern Europe Linkage Institute alone maintains educational and research partnerships with 20 institutions in nine countries, including Russia, Ukraine, Slovakia, the Czech Republic, Bulgaria, Lithuania, Romania, Poland, and the United States. The student experience abroad does not stop in the classroom with opportunities available for students to travel internationally.

Strength in Diversity and Inclusiveness

Increasing diversity and inclusiveness is one of the central goals of UCF. The university is particularly proud of an aggressive minority recruitment plan, and minorities now account for OVER 30% of the faculty.

The student community includes Hispanic/Latino (27.5%), African-American (10%), and Asian/Pacific Islander (6%) students and represents 64 of Florida’s 67 counties, all 50 states, and 145 countries.

Partnerships and Community Service

One of UCF’s main objectives is to be America’s partnership university. Hundreds of joint projects are in place with community organizations and government agencies at all levels and corporations—ranging from collaborative research in nanoscience to neighborhood nursing
Two major partnerships target the region’s most prominent business sectors. The Rosen College of Hospitality Management will increase the university’s already significant commitment to the area’s tourism and hospitality sector. High-tech interests are being well-served by the Florida High Tech Corridor partnership—an initiative of UCF, University of South Florida, and the University of Florida drive progress in the region.

Orlando and Beyond

In addition to its 1,415-acre main campus in Orlando, UCF has area campuses in Lake Nona, Southwest Orlando, and Downtown Orlando; centers in Altamonte Springs, Cocoa, Daytona Beach, Leesburg, Ocala, Palm Bay, Sanford/Lake Mary, South Lake, Valencia East, Valencia Osceola and Valencia West giving students throughout central Florida the chance to take classes, pursue degrees, and interact with faculty and staff.

Virtual Campus

UCF’s virtual campus UCF Online is leading the way in the integration of technology, teaching, and learning. Fifty graduate degrees and tracks and 42 certificate programs are available online, in addition to many individual graduate-level courses. Essential student services, such as parking, course registration, and textbook purchases are also available online.

For more information on UCF’s online programs, visit www.ucf.edu/online.

UCF Athletics

- UCF student-athletes compiled a 3.36 GPA for the spring of 2021, extending its streak to 27 consecutive semesters with a GPA of 3.0 or better.
- UCF’s football team ranked ninth academically out of 78 bowl-bound teams.
- UCF Men’s soccer won its third consecutive AAC regular season title and its first tournament crown during the 2020-21 season.
- The UCF women’s tennis team won its second consecutive American Athletic Conference championship in 2021.
- The UCF men’s tennis team won its first American Athletic Conference championship in 2021.
- Of the 64 teams in the NCAA Women’s Basketball Tournament, UCF is one of 27 that achieved a 100 percent graduation rate according to The Institute for Diversity and Ethics in Sport (TIDES)’s Keeping Score When It Counts report, which is published by Richard Lapchick, TIDES director and chair of UCF’s DeVos Sport Business Management Program.
- The UCF cheer team finished as the national runner-up in the Cheer Division IA at the 2021 UCA College Cheerleading National Championships.

Central Florida—A great place to be

UCF is located 13 miles east of downtown Orlando, 45 miles from the Atlantic Ocean and Cape Canaveral, and 100 miles from Tampa and the Gulf of Mexico. The area boasts world-class shopping and dining, amusement parks, lakes, golf courses, jogging and biking trails, and nature preserves.

UCF—A Time of Opportunity

The time is now for UCF—one of the fastest-growing, metropolitan research universities in the country and a catalyst for economic development in central Florida. Significant in size, excellent in academics, and prominent in accomplishments, the University of Central Florida is one of Florida’s leading educational assets.

The University’s culture of opportunity is driven by the diverse people it attracts, its Orlando location, its history of entrepreneurship, and its youth, relevance, and energy.

Facts
About the University

Status
One of 12 of Florida’s public universities

Location
In metropolitan Orlando area, 13 miles east of downtown Orlando

Carnegie Classification
Comprehensive Doctoral; Research Universities - Very High Research Activity

Number of Graduate Programs
37 Doctoral, 94 Master’s, 103 Graduate Certificates, 3 Specialist Programs, and 1 MD Program

Total UCF Enrollment for Fall 2020
71,913

Graduate Enrollment in Fall 2020
10,002 = 2,281 Doctoral Students + 6,969 Master’s Students + 448 Certificate Students, 63 Specialist Students + 241 Non-degree Students

Courses offered in Arts and Humanities, Business Administration, Communications, Community Innovation and Education, Engineering and Computer Science, Graduate Studies, Health Professions and Sciences, Hospitality Management, Medicine, Nursing, Optics and Photonics, and Sciences are offered at night, online and at UCF’s regional campuses.

About UCF Graduate Students

Total Grad Students = 10,002 (13.9% of total UCF students)
490 Medical Students
2,281 Doctoral Students (23% of total)
6,969 Masters Students (70% of total)

Part-Time
60.8% of Grad students
62.9% of Masters students

Full-Time
39.2% of Grad students
52.3% of Doctoral Students
2,970 Graduate Students are studying fully Online
39% of Graduate Students are male
61% of Graduate Students are female
12.1% of Graduate Students are international representing 112 different countries
Average age of Doctoral Students is 32
Average age of Masters Students is 30

UCF Graduate Students represent every state in the US

201 Degree Programs

398 Programs, tracks, and certificates

Ethnicity of Graduate Students -
Hispanic - 18.84%
Black/African American - 11.24%
Asian - 5.02%
Multi-Racial - 3.07%
Not Specified - 1.07%
American Indian - <1%
Native Hawaiian/Pacific - <1%

Financial Support for Graduate Students

- Assistantships - Each year over 1,500 full-time enrolled graduate students are supported on assistantships.
- Fellowships - Over 2 million dollars in graduate fellowship support is awarded to doctoral and master’s students each year.
- Tuition Remission - University fellows and graduate students appointed on full-time assistantships (20 hours per week) receive full resident (in-state) tuition remission. Students appointed on half-time assistantship appointments (10 hours per week) receive remission of one-half of the resident (in-state) tuition. All nonresident university fellow and graduate assistants with appointments totaling 20 hours per week are charged a “differential out-of-state fee” of $0.00 rather than the out-of-state fee per credit hour during the terms of the qualifying fellowship or assistantship.
- Health Insurance - The College of Graduate Studies offers individual health insurance coverage to all qualifying university fellows and graduate assistantship students with appointments totaling 20 hours per week. Students who accept the coverage have the insurance premiums paid for by UCF.

2021-2022 Graduate Catalog
Research Activities 2020

Academic research fuels the innovation economy and UCF is an integral part of statewide efforts to attract, retain, and grow high technology companies in Florida. UCF’s programs in engineering, optics, and photonics, and simulation and training, computer science and nanoscience are among the best in the nation. In 2020 UCF researchers received $204.5 million in contracts and grants, the largest percentage of funds coming from the federal government, which has a vested interest in advancing knowledge and fueling America's innovation pipeline.

Research faculty are the strength behind the development of new technologies. UCF's incubation and entrepreneurship programs help turn those technologies into companies, which in turn help those companies put products on the market.

- Total Research Awards - $204.5 million
- Total Federal Awards - $110.7 million
- Total State Awards - $47.3 million
- Total Industry Awards - $46.4 million
- Patents - UCF holds more than 922 U.S. Patents

UCF Centers and Institutes Research

- Advanced Materials Processing and Analysis Center (AMPAC) - $2.3 million
- Florida Solar Energy Center (FSEC) - $3.0 million
- Nanoscience Technology Center - $7.8 million
- Florida Space Institute - $11.5 million
- Center for Research in Computer Vision - $3.7 million
- Institute for Simulation and Training (IST) - $13.4 million

College Research

- Arts and Humanities - $1.2 million
- Business - $215,739
- Community Innovation and Education - $30.6 million
- Graduate Studies - $813,864
- Engineering and Computer Science - $43.4 million
- Health Professions and Sciences - $4.9 million
- Hospitality Management - $984,542
- Medicine - $20.1 million
- Nursing - $1.5 million
- Optics and Photonics (CREOL) - $15.1 million
- Sciences - $25.4 million

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Interim Director, Experiential Learning
V’Rhaniku Haynes

Office of Vice President for Government & Community Relations
Colleges

UCF has 11 Colleges that offer Graduate Education to our students. Click on the pictures for more details.

College of Arts and Humanities
College of Business Administration

College of Community Innovation and Education
College of Health Professions and Sciences

College of Medicine
College of Nursing

College of Optics and Photonics
College of Sciences

Rosen College of Hospitality Management

College of Graduate Studies
Overview

Mission Statement

College of Graduate Studies

Leadership

Graduate Council

College Graduate Associate

Deans

Graduate Program Directors

Graduate Faculty and Graduate Faculty Scholars

Overview

The College of Graduate Studies provides leadership and vision for graduate education at the University of Central Florida. Program quality, graduate admissions, recruiting, enrollment management, student services, and records, financial support, policies, appeals, program development, and review, benchmarking, and completion of graduate degrees are important concerns of the College.

Working in conjunction with the Faculty Senate Committees and the college and graduate program coordinators, the College of Graduate Studies is responsible for developing university-wide graduate plans and policies, coordinating graduate activities, distributing tuition support and fellowships to the colleges, facilitating the adoption of new graduate programs, coordinating the recruitment of graduate applicants, and admitting graduate students to the university. Students apply to the university through the Office of Graduate Admissions. Admission decisions are made by the graduate program directors and the College of Graduate Studies.

The College of Graduate Studies houses several interdisciplinary graduate programs: Geographic Information Systems Graduate Certificate; Interdisciplinary Studies MA and MS; Modeling and Simulation PhD, MS, and Graduate Certificate; and Nanotechnology MS.

Mission Statement

The UCF College of Graduate Studies provides leadership and services to create high-quality learning environments for graduate students.

About Our Mission

The UCF College of Graduate Studies is an advocate for graduate education, working to mobilize and manage the resources needed for enrollment and program growth. We track and analyze emerging trends and changes in graduate education, both nationally and with our peer institutions, and provide support and guidance for interdisciplinary and cooperative programs. We are mindful of the need to retain the academic values of the graduate programs while acting as a partner in the social and economic well-being of the community and state.

We collaborate with the faculty to develop policies and best practices that further the high academic standards and excellence of our graduate programs. We provide information and services that students need to enhance their experience with UCF and that faculty and staff need to effectively carry out their responsibilities to students. Cooperation with colleges, graduate programs, institutes and centers, administrative offices, and support services is emphasized to provide an excellent experience for our graduate students from inquiry to graduation.

Through its primary activities, programs, and services, the UCF College of Graduate Studies contributes to program development and growth, enrollment management and recruiting, enhanced infrastructure and technological support for our graduate students and programs, and quality student support services for a diverse and talented graduate student population.
Graduate Council

The Graduate Council is a standing committee of the Faculty Senate and reports to the Senate on graduate policy and curriculum matters. The Graduate Council deals with policy issues and standards for the university. New graduate program requests, changes to existing graduate programs, additions, deletions and modifications to graduate courses, and new policies or changes to existing graduate policies are initiated and reviewed by the Graduate Council. New graduate degree programs require final approval by the Board of Trustees, and approval for doctoral programs is required from the Florida Board of Governors. The Graduate Council has four committees that examine and formulate policies and procedures, hear petitions for variances from a graduate program or university requirements, review new graduate program requests, review changes to existing graduate programs, additions, deletions and modifications to graduate courses and provide input on graduate program reviews, among other matters. For specific duties and membership requirements of the committees and the Council please see Section VII of the Faculty Constitution at http://www.facultysenate.ucf.edu/constitution/index.asp.

College Graduate Associate Deans

College graduate associate deans are appointed by the respective college deans to work with the College of Graduate Studies. The primary responsibilities of the college graduate associate deans are to identify academic opportunities for graduate education in their colleges, plan for enrollment growth and the use of resources in the graduate programs, communicate the college vision of graduate education to faculty, staff, students, and the university, coordinate and represent college graduate concerns to others, conduct studies that ensure program quality and standards in the college and report this information to the university, assist with program reviews, and prepare an annual report to the College of Graduate Studies on college graduate activities.

College Graduate Associate Deans

College of Arts and Humanities: Lynn Hepner
College of Business Administration: Dr. Sevil Sonmez
College of Community Innovation and Education: Dr. Glenn Lambie
College of Engineering and Computer Science: Dr. Ali Gordon
College of Graduate Studies: Dr. John Weishampel
College of Health Professions and Sciences: Dr. Linda Rosa-Lugo
College of Medicine: Dr. Saleh Naser
College of Nursing: Dr. Joellen Edwards
Rosen College of Hospitality Management: Dr. Alan Fyall
College of Optics and Photonics: Dr. Jim Moharam
College of Sciences: Dr. Laurie von Kalm

Graduate Program Directors

The graduate program directors are appointed by the respective department Chairs (or Directors of other units with graduate academic programs) to work with the college and university personnel on behalf of graduate education. Under the direction of the department chair, they are responsible for the graduate program’s health and quality. They oversee the recruiting of graduate students and respond to inquiries; provide for student services such as mentoring, career development opportunities, and student orientations; plan for office space for graduate assistants; inform students and faculty of student completion rates; inform students and faculty of financial support available to graduate assistants; and ensure program standards in their department. Graduate program directors are the main contacts for each of the graduate programs.

Graduate Faculty and Graduate Faculty Scholars

University-Wide Qualifications for Participation in Graduate Education
Graduate education requires the participation of highly competent faculty who are willing to share their specialized skills and knowledge with graduate students. Graduate faculty teach graduate courses, serve as members of thesis and dissertation committees, and serve as faculty advisers for thesis and dissertation students and chairs of thesis and dissertation committees. The following guidelines outline the minimal credentials necessary for faculty to serve the many different roles they play in graduate education. Programs may set higher qualification standards or additional requirements. As the university is committed to encouraging, facilitating, and rewarding interdisciplinary, multi-disciplinary and cross-disciplinary educational and scholarly activities, the service of faculty and staff members in more than one department, school, center/institute, or college is encouraged as a way to further this objective.

Faculty engaged in graduate education must possess either a terminal academic degree in, or closely related to, the discipline in which they are teaching, or expertise in a field related to the topic of the thesis or dissertation if serving on a thesis or dissertation committee. Substitution for the terminal degree may be granted with documented relevant exceptional experience and scholarly or creative activity when recommended by the graduate program committee and approved by the department chair/unit director. No graduate student at UCF may teach UCF graduate courses as the instructor of record.

For the appointment of individuals in the process of obtaining a terminal degree, the College of Graduate Studies can certify that all requirements for a degree have been met.

Members of the Graduate Faculty cannot have personal or financial (including employment) arrangements that may pose a conflict of interest with a student on whose thesis or dissertation committee they serve.

This policy has five major sections:

- Section A defines the terms describing the roles played by faculty in graduate education.
- Section B establishes the role of the graduate program committees in the process of appointing Graduate Faculty and Graduate Faculty Scholars.
- Section C establishes the roles and qualifications for appointment as Graduate Faculty and Graduate Faculty Scholars.
- Section D establishes procedures for review, renewal, and termination of appointments to the Graduate Faculty.
- Section E establishes the responsibilities for the various members of the dissertation committees.

A.1: Faculty Roles in Graduate Education

Faculty involved in graduate education comprise members of the Graduate Faculty (Sections C.1-C.2) and Graduate Faculty Scholars (Section C.3). These faculty may be eligible to assume the following roles as part of their involvement in graduate education at UCF:

- Instructor of record for graduate-level courses (graduate teaching)
- Member of a thesis or dissertation committee
- Chair of a thesis or dissertation committee: In the vast majority of cases, the chair is the adviser of the scholarly activities of the student. A chair of a thesis or dissertation committee also oversees all of the administrative functions of the committee. A Graduate Faculty Scholar is not eligible to serve as a chair of a thesis or dissertation committee.
- Co-chair of a thesis or dissertation committee: A co-chair is a member of a thesis or dissertation committee who shares with the chair in the scholarly advisory activities of the student. In cases in which a Graduate Faculty Scholar oversees the day-to-day scholarly activities of the student, the Graduate Faculty Scholar may be appointed as a co-chair of the thesis or dissertation committee.
- Vice-chair of a thesis or dissertation committee: A vice-chair serves as a voice of experience in thesis and dissertation committees. A vice-chair must be appointed to committees in which the chair has no prior experience serving on thesis or dissertation committees. To be appointed as a vice-chair, the committee member must have prior experience serving on at least one thesis or dissertation committee that has successfully graduated a student.

Descriptions of the responsibilities of members and chairs of dissertation committees are detailed in Section E.

B.1: Graduate Program Committees

Each graduate program will be administered by a graduate program committee consisting of faculty members who participate in the program. An active graduate program committee is required for each graduate program in order to provide program oversight and to ensure that the qualifications of contributing individuals are appropriate for participation in graduate education. Graduate program committee members are appointed in accordance with established department/school procedures and the qualifications established in this document.

B.2: Qualifications for Serving on Graduate Program Committees

Tenured, tenure-earning or ranked faculty who are members of the Graduate Faculty may serve on graduate program committees. The graduate program director will be the chair of the graduate program committee.

C.1: The Graduate Faculty
Ranked professors (tenure, tenure-earning, clinical, research), engineers, instructors, lecturers, librarians, scientists, and scholars are eligible for appointment to the Graduate Faculty. Appointment to the Graduate Faculty begins with a nomination by the graduate program committee that is relevant to the graduate education duties of the individual faculty member. The nomination must then be approved by the department chair/unit director for review and appointment by the Dean of the College of Graduate Studies. Qualified graduate faculty members may be eligible to serve in more than one graduate program. Graduate faculty members who are outside of a student's program are eligible to serve as external members of a thesis or dissertation advisory committee.

Special graduate faculty nominations may be made to the Graduate Council at the discretion of the Dean of the College of Graduate Studies.

All graduate faculty are eligible to teach graduate courses, serve as members of thesis and dissertation committees, and serve as chairs or co-chairs of master's thesis committees.

C.2: Eligibility Criteria for Service as Chairs of Thesis and Dissertation Committees

All chairs and co-chairs must be approved by the graduate program committee of the student's program. Graduate program committees may specify additional guidelines for service as a chair or co-chair of thesis or dissertation committees.

Scholarly currency requirement to serve as a chair of a dissertation committee: For graduate faculty members to serve as a chair or co-chair of a dissertation committee, they must demonstrate significant current involvement in scholarly research or creative productivity. Scholarship and creative activity are evidenced and recognized through publications, presentations, performances, exhibits, awards, and competitions. Other considerations include a continuing fulfillment of professional obligations through, for example, manuscript review, journal editorship, and national advisory and review panels. The criteria for scholarly currency are to be established by each graduate program and approved by the department chair/unit director. The criteria must be submitted to the Dean of the College of Graduate Studies prior to nominations for graduate faculty appointments and updated for the reappointment process.

Required thesis or dissertation committee experience: Graduate faculty who have not served as a member of a thesis or dissertation committee may serve as the chair of a thesis or dissertation committee, but must have a vice-chair appointed to the committee who has previously served as a member of a thesis or dissertation committee to completion.

C.3: Graduate Faculty Scholars

Other qualified individuals may serve as graduate faculty scholars in graduate faculty roles confined to specific, well-defined graduate faculty assignments. Graduate faculty scholars play important roles in graduate education at UCF, but their status as graduate faculty scholars is distinct from that of members of the Graduate Faculty.

The appointment of graduate faculty scholars begins with a nomination by the graduate program committee that is relevant to the graduate education duties of the individual. The nomination must then be approved by the department chair/unit director for review and appointment by the Dean of the College of Graduate Studies.

Graduate faculty scholars may be designated as "Teaching-Only" if their responsibilities will be restricted solely to teaching graduate courses.

Graduate faculty scholars may serve as members of the thesis or dissertation committees for the purpose of bringing specific disciplinary knowledge to the committee. In instances deemed appropriate by the graduate program committee, graduate faculty scholars may also serve as co-chairs or vice chairs of thesis and dissertation committees, but may not serve as chairs of these committees. Graduate faculty scholars serving on thesis and dissertation committees, either as members or co-chairs, must have documented evidence of exceptional relevant experience and/or scholarly or creative productivity, as determined by the graduate program committee.

It is expected that graduate faculty scholars will attend the various committee meetings associated with serving as a member of a thesis or dissertation committee.

D.1: Graduate Faculty Reappointments

Individual qualifications for reappointment as a graduate faculty member will be re-evaluated by the Program Review Committee of the Graduate Council. Reappointment evaluations will be conducted at the time of the periodic university program review, or sooner, as deemed appropriate by the graduate program committee or at the request of the Dean of the College of Graduate Studies. At that time, individuals must re-submit their current credentials to the Program Review Committee of the Graduate Council if they wish to have their appointment renewed. Qualifications will be based on accomplishments since the last program review and the criteria established by the nominating graduate program.

D.2: Non-periodic Graduate Faculty Review

In addition to the periodic review of faculty for reappointment as Graduate Faculty (as described in D.1), individuals may be reviewed at any time, for cause, such as not maintaining scholarly currency, not providing appropriate mentorship or high-quality education to students, or violations of process, policy, or law.

Serious concerns over a Graduate Faculty's actions should be brought to the attention of the Dean of the College of Graduate Studies. The Dean of the College of Graduate Studies will evaluate the initial concern and decide whether it warrants review by the Graduate Council Program Review and Awards Committee. If a review is warranted, the Dean of the College of Graduate Studies will charge the committee with investigating the situation and compiling a written report. During the investigation, the committee will review verbal and/or written statements by the faculty member and other relevant parties in addition to other sources of information necessary to make a recommendation. The written report will include a summary of the findings and a recommendation about the individual's Graduate Faculty status, with justification for the recommendation. The recommendation may be: 1) no change in Graduate Faculty status, 2) probationary status (in which Graduate Faculty activities are limited or closely monitored while the faculty member completes the required developmental activities), 3) suspension of Graduate Faculty status, or 4) revocation of Graduate Faculty status, with the latter two typically
D.3: Reinstatement of Graduate Faculty Status

When Graduate Faculty status is not renewed (during the Periodic Faculty Reappointment process per D.1), a faculty member can request to the College Dean a one-time re-evaluation of his/her credentials. If the reappointment is not granted, then the faculty member must wait two years (or more) to request to be re-nominated. When Graduate Faculty status is revoked (based on the outcome of a Non-periodic Graduate Faculty Review per D.2), faculty members can request to the Dean of the College of Graduate Studies to be re-nominated for Graduate Faculty status two (or more) years after the decision to remove Graduate Faculty status. For reinstatement, documentation regarding the removal from Graduate Faculty status will be considered, along with the re-nomination request.

D.4: Guidelines for a Thesis or Dissertation Committee Member Who Leaves UCF

A thesis or dissertation committee member who leaves UCF may be eligible to continue serving on the committee as a graduate faculty scholar with the approval of the graduate program committee.

D.5: Guidelines for a Thesis or Dissertation Committee Chair Who Leaves UCF

In the event that a chair of a thesis or dissertation committee leaves UCF:

1. With the approval of the graduate program committee, a chair of a thesis or dissertation committee who leaves UCF may continue to serve as chair and supervise the thesis or dissertation for one calendar year after leaving.
2. If one calendar year has passed since the faculty member left UCF and the advisee has not yet completed the degree requirements, the departed faculty member may continue to serve as co-chair of the thesis or dissertation committee as a graduate faculty scholar, with approval of the graduate program committee; however, a new chair from the student’s department (or college, if a college-wide program) shall be designated.

D.6.1: Faculty Emeriti

Emeritus graduate faculty members may continue to participate in graduate education as a graduate faculty scholar, without the necessity of nomination. With the approval of the graduate program committee, they may continue to serve for a specified period of time as faculty advisers and chairs of thesis and dissertation committees established prior to emeritus status. Emeriti faculty may not chair additional thesis and dissertation committees but may continue to serve on thesis and dissertation committees as a member or co-chair for as long as they remain active with the institution.

D.6.2: Retired Faculty

In the event that a chair of a thesis or dissertation committee retires from UCF:

1. With the approval of the graduate program committee, a chair of a thesis or dissertation committee who retires from UCF may continue to serve as chair and supervise the thesis or dissertation for one calendar year after leaving.
2. If one calendar year has passed since the faculty member retired and the advisee has not yet completed the degree requirements, the retired faculty member may continue to serve as co-chair of the thesis or dissertation committee as a graduate faculty scholar, with approval of the graduate program committee; however, a new chair from the student’s department (or college, if a college-wide program) shall be designated.

E.1: Responsibilities of Members of Dissertation Committees

1. To meet at regular intervals at least once per year to: (i) discuss and approve the proposed dissertation research and the plans for carrying out the research; and (ii) to assess progress towards the dissertation and give the student a yearly letter of evaluation in addition to S/U grades awarded for 7980 courses.
2. To review and evaluate the dissertation submittals.
3. To participate in the candidacy and/or dissertation prospectus examination.
4. To participate in the dissertation defense to assure: (i) that the dissertation is acceptable as original research and a contribution to the discipline; and (ii) that it meets the standards of the University.

E.2: Responsibilities of the Chair (and co-Chair) of Dissertation Committees

1. In cooperation with the program director, to review the program of study, the research, and all other degree requirements by meeting with the student early in the program and immediately after appointment as chair/co-chair.
2. To suggest to the student possible committee members who could serve on the dissertation committee.
3. To establish timelines for the research, set expectations, and evaluate the student progress based upon these.
4. To meet at regular intervals with the student to discuss the proposed dissertation research and the plans for carrying out research.
5. To review in a timely manner all written materials submitted by the student and offer suggested revisions.
6. To meet at least once per year with the student and the dissertation committee to assess progress toward the dissertation and give the student an annual review in addition to the S/U grades awarded for 7980 courses. The chair shall send the annual review to the program director after consultation with the dissertation committee.
7. To coordinate the ongoing efforts of the committee as its chair, and to participate fully in the responsibilities of the committee members as a member of the dissertation committee.
8. To chair the candidacy and/or dissertation prospectus examinations.
9. To be physically present and chair the dissertation defense, ensure its proper conduct as described above, and submit to the
program director for the student's records all necessary grades, forms and other materials.

10. In disciplines where funding is essential to the success of the thesis or dissertation work, to acquire funds (and appropriate facilities) sufficient to support the research of the student.

E.3: Responsibilities of the External Committee Member of a Dissertation Committee

1. External committee membership will entail the full responsibilities of other committee membership as specified in section E.1 above, including being present at the final defense.
2. External committee members should bring specific disciplinary knowledge or research expertise to the committee.
3. External committee members may be appointed from outside of the university or outside of the college (if the committee is for a college-wide program). The external committee member may not be affiliated in any way with the department of the committee, such as through joint or secondary joint appointments.
4. Graduate faculty scholars are external members.

E.4: Dissertation Committee Procedures

1. For on-campus defenses, no fewer than four faculty members, including all members of the dissertation committee, shall be in attendance with the student during the dissertation defense, and at least half of the committee must be physically present.
2. Graduate programs may elect to offer the option of a virtual dissertation defense (student off-campus defense) upon approval of the graduate program director, the department, and the college. If the student defends virtually, at minimum the dissertation committee chair will be present at the campus location of the public defense. No fewer than four faculty members, including all members of the dissertation committee, shall be in attendance during the dissertation defense.
3. Only members of the dissertation committee may sign the dissertation, and a majority must approve the dissertation.

F.1: Exceptions

Exceptions may be made at the discretion of the Vice Provost and Dean of the College of Graduate Studies.

Admissions

The UCF College of Graduate Studies coordinates the admission's process with graduate program directors across the university to admit prospective students to graduate study. The College of Graduate Studies also admits students who are applying as nondegree-seeking students.

In order to enroll in graduate classes, students must have obtained a baccalaureate or higher degree, prior to the start of the term for which the student is admitted, from an accredited U.S. institution recognized by UCF or from a recognized foreign institution. Students without a baccalaureate or higher degree from an accredited U.S. institution recognized by UCF or a recognized foreign institution are not admitted to graduate degree programs, graduate certificate programs, or graduate non-degree status. The following links will provide important information for graduate applicants to UCF.
U.S. Citizens and Resident Aliens
International Students
Information for All Applicants
Residency

Admission to the University

All graduate students being admitted to the university must meet the minimum UCF admission requirements.

The admission process begins with the receipt of the Graduate Application for Admission along with all application requirements. In order to be considered for admission to a graduate program, the following information must be submitted and on file in the UCF College of Graduate Studies by the stated application deadline: application, residency, and any application requirements specified by the program. These documents become part of UCF's files and will not be returned to or copied for the applicant. All application requirements, aside from transcripts and test scores, must be submitted together with the online application. Transcripts and test scores must be official.

For specific graduate program information, refer to the appropriate program descriptions in the Graduate Programs section of this catalog. Program application deadlines are listed for each graduate program.

NOTE: All graduate programs require that all application requirements (application form, residency form, recommendations, essay/personal statement, resume) be submitted online simultaneously by the stated application deadline. Official test scores (if required) must be sent directly from ETS/Pearson Vue to the UCF College of Graduate Studies (institution code 5233 for GRE and TOEFL; institution code RZT-HT-58 for GMAT). Official transcripts should be sealed in an envelope by the registrar of the former institution and sent directly to the UCF College of Graduate Studies, P.O. Box 160112, Millican Hall 230, Orlando, FL 32816-0112.

Once the online application and all application requirements are received, the UCF College of Graduate Studies will send you an e-mail notifying you of its receipt. The actual processing of the application, however, is not initiated until the application fee and other application requirements are received in the UCF College of Graduate Studies. Please refer to the graduate program's admissions information in order to become familiar with the procedures specific to each program.

When all application requirements are received by the stated deadline and processed by our office, the appropriate graduate program reviews it in order to make an admission recommendation. Acceptance into a graduate program will be granted by the UCF College of Graduate Studies.

Nondegree-seeking applicants will receive notice of acceptance to the university and registration information from the UCF College of Graduate Studies. Admission as a nondegree student does not constitute admission to a graduate program or graduate certificate program.

Readmission to the University

A regularly admitted student who has not been registered for three consecutive semesters must apply for readmission to the same graduate program through the UCF College of Graduate Studies. Readmission is also required if a student has been previously dismissed from a graduate program and wishes to gain entrance back into that same program. Students seeking readmission must complete the online application along with all application requirements. An application processing fee is required. Please refer to the Graduate Programs section to ensure that you have not missed the deadline for your program. Readmissions are not guaranteed.

Registration
UCF’s registration system allows students to enroll for the entire upcoming academic year (3 semesters). This improves a student’s ability to plan for upcoming terms and allows students more opportunity to make any necessary adjustments to registration. It is important for students to register for courses they plan to complete and fulfill requirements within their degree plan. Students are not required to register for all three terms during their initial appointment but the upcoming academic year will be available. For additional information regarding Multiple Term Registration (MTR), please visit the Registrar’s Office webpage.

During each academic semester, registration is held for all new, currently enrolled, degree-seeking, and nondegree-seeking students for the following term. Registration sessions consist of Registration and Late Registration (held during the first week of classes each term).

Multiple term registration begins following mid-term of the spring semester for the following summer, fall, and spring terms. Class listings are available only online through the Class Schedule Search at my.ucf.edu. The dates and times for each registration period are included in the Academic Calendar.

Note: Newly admitted students (degree or nondegree) must register for classes in their first term in order to become and remain active. New students that do not enroll in classes in their first term will have their file inactivated and all future registration dropped. Once their file is inactivated, they will need to re-apply by completing a new online application and submitting a new application processing fee.

Please note that the last day to Drop classes is now the last day to Add classes. Please visit the Student Handbook on the College of Graduate Studies Website for more information on registration and related topics.

Online Registration

Registration is available over the web using the myUCF system at my.ucf.edu and in the college advising offices.

UCF NID (Network Identification Number)
Students obtain the UCF NID Number on their first login to myUCF at my.ucf.edu. The initial login will use a default password. Following instructions, students choose a new password and reminder clue.

**Web Enrollment Guide**

The *Web Enrollment Guide* is published online once a year by the Registrar's Office. The *Web Enrollment Guide* provides the official "Academic Calendar" and describes the policies and procedures governing registration each term. The *Web Enrollment Guide* is available on the Registrar's Office website.

**Immunization Form**

All new first-term graduate students must have an Immunization Form completed before they are allowed to register at UCF. Holds placed on registration will be removed by the UCF Health Services once the Immunization Form is received. Forms may be obtained on the UCF Student Health Services website.

**Continuing Graduate Students**

Continuing graduate students register through myUCF after their assigned appointment day and time. All continuing students should register early. For graduate students with fellowships or assistantships, failure to register early may result in delays in receiving assistantship paychecks and sometimes result in the loss of tuition waivers. Continuing graduate students registering for an internship, independent study, thesis or dissertation hours, or research report hours must fill out a Registration Agreement form obtained from their adviser or department office. The college graduate office will normally register students into these courses.

**Enrollment of International Students**

International students are required to seek advice from UCF Global to ensure that their enrollment status meets full-time status in compliance with United States Citizenship and Immigration Services regulations. Students must obtain advice from UCF Global before dropping or withdrawing from courses that would affect their course load.

**Nondegree-seeking Students**

Before registering, all nondegree-seeking students should check with the departments where they want to take courses in to learn what is required for registration by that department. Certain classes are restricted, and it is best to find this out first. In the College of Community Innovation and Education, nondegree-seeking students can ONLY register for 5000- and 6000-level classes. In the College of Business Administration, nondegree-seeking students cannot register for graduate courses. The College of Engineering and Computer Science will only allow nondegree-seeking students to register with special approval from the program director. Nondegree-seeking students who want to register for the College of Arts and Humanities, College of Health and Professions and Sciences, College of Optics and Photonics, College of Sciences or Rosen College of Hospitality Management courses should check with the individual graduate programs for more detailed information.

Nondegree-seeking students must be registered for 12 hours to be considered full-time. Nondegree-seeking students who already have certification elsewhere (i.e., from a College of Education in another state) are not eligible to receive financial aid. In general, nondegree-seeking students are not eligible for financial aid, assistantships, fellowships, or tuition support, although it is best to check with the Office of Student Financial Assistance for specific details.

**Holds**

A hold (negative service indicator) may be placed on a student's records, transcripts, grades, diplomas or registration due to financial or other obligations to the University. Satisfaction and clearance of the hold is required before a release can be given. Students may check for holds on the myUCF system at my.ucf.edu. To obtain an immediate release for Student Accounts financial holds, you may make your credit card or e-check payment online from your student account. After making a successful payment, contact Student Account Services with the remit ID to confirm your payment and have your hold released.

To release UCF College of Graduate Studies holds, the students must provide the outstanding application requirement(s) to complete their records.

**Audit Registration**

Audit students are those who desire to attend class(es) without receiving academic credit. Regular tuition and fees are assessed for audit registration. See "Tuition and Fees" for more information about the cost of auditing classes at UCF. Audit registration is on a space-available basis at the assigned time of Registration or at any time during Late Registration and Add/Drop when Late Registration fees will apply. Audit requests for students who register prior to this time will be denied. Students may not change to audit status after Late Registration and Add/Drop, but must remain in the course or withdraw through normal withdrawal procedures. New students must be accepted for admission. Audit forms, available on the Registrar's Office website and in the Registrar's and college advising offices, must be signed by the instructor and presented to the Registrar's Office at the time of registration.

**Senior Citizen Audit**

Senior citizens (60 years of age or older) who have been residents of the State of Florida for at least one year as of the first day of classes may enroll tuition-free as audit students (i.e., no academic credit) on a space-available basis. Forms to be completed include the "Residency Affidavit," the "Student Health History," and the "Senior Citizen Audit Application" and "Senior Citizen Audit Registration Form."
These forms are available in the Registrar's Office (Millican Hall 161) or at the Registrar's Office website. It is necessary to complete the required forms during the last hours of registration as noted in the Academic Calendar. Direct student expenses after the completion of registration include the campus ID card, vehicle registration, and textbooks.

### State Employee Registration

State of Florida employee enrollment into courses for which the employee will seek a tuition waiver will occur on a space-available only basis on the last day of registration each term at the time specified on the Academic Calendar. For waiver eligibility and application information, see the "Tuition Support" section.

### UCF Employee Registration

UCF employee enrollment into courses for which the employee will seek a tuition waiver will occur on a space-available only basis on the last day of registration each term at the time specified on the Academic Calendar. For waiver eligibility and application information, see the "Tuition Support" section.

### Fee Payments

All graduate students must pay their tuition and fees by the published fee payment deadline. If a department or college has not recorded tuition support by then, students must pay all tuition and fees. If a department or college has waived partial tuition and it is recorded, then students must pay the remainder of the tuition owed and all of the fees by the published deadline. It is important for graduate students to register early to provide the department or college enough time to record tuition support. Please visit the Student Account Services website for details on fee invoice and payment procedures.

### Residency

For information about Florida Residency for Tuition Purposes and Residency Reclassification, visit the Cost page on the Graduate website.

### Fee Invoices

The "Fee Invoice" is your verification of registration. You are not assured of being registered for any class until you print out your Fee Invoice/Schedule. Your fee invoice lists your fees and the classes in which you are registered. Please print a new invoice if you drop or add classes so that the invoice will reflect changes in your fees. Newly admitted students should review their Fee Invoice carefully. If a "non-resident" rate is added to your bill and you believe this is in error, please contact the UCF College of Graduate Studies as soon as possible. For information on Florida Residency for Tuition Purposes please visit the "Financial Information" section of this catalog. If you wish to pay your fees by credit card, press the "ePay fees" button, which will take you to the UCF online credit card payment system. Be sure to have your current address on file (see "Address and Email Changes" below).

You may print your "Fee Invoice" through myUCF at my.ucf.edu under the Student Accounts menu or at UCF Kiosks.

### Mandatory Health Information

In order for a student to register, the State University System of Florida requires:

- All students born AFTER 1956 to present documented proof of immunity to measles (rubeola).
- All students UNDER the age of 40 to present documented proof of immunity to rubella (German measles).
- All students (REGARDLESS OF AGE) to submit a signed medical history form. Distance learning students who will never come to UCF or an area campus are only required to submit the medical history form.

Students are not allowed to register without proper health information documentation. Please refer to the Immunization Form for specific details of requirements and acceptable documentation. If you have questions, contact the Immunization Coordinator, UCF Health Services phone: (407) 823-3707; fax: (407) 823-3135. Office hours for the UCF Health Services vary. Please visit the UCF Student Health Services website for additional information.

### Name Changes

To change the legal name maintained on the student's official UCF record, the student must submit a completed "Change of Name" form and supporting documentation to the appropriate UCF office. Attach to the form a copy of a legal name change document (e.g., marriage certificate, divorce decree, etc.). Undergraduate students must submit the form to the Registrar's Office (Millican Hall 161). Graduate students must submit the form to the UCF College of Graduate Studies (Millican Hall 230). Current UCF employees and students who have been UCF employees within twelve months of the date the name change is requested must submit the form to the Human Resources Office (12565 Research Parkway). The "Change of Name" form is available from the Registrar's Office website or in Millican Hall 161.

### Address and E-Mail Changes

To communicate in a more expedient manner, UCF uses e-mail as the primary means of notifying students of important university business and information dealing with registration, deadlines, financial assistance, scholarships, tuition, and fees, etc., as described in Student Responsibility for University Communication in this catalog.

If the student's address changes, it is the student's responsibility to make the appropriate changes to the address through myUCF.
at my.ucf.edu or at any of the kiosks located on campus. Address and email changes also can be made by submitting a Change of Address form or by writing the:

Registrar's Office
P.O. Box 160114
Orlando, FL 32816-0114

or

tax to (407) 648-5022

Written requests must be signed and the student number provided. Address changes can also be made by writing the:

UCF College of Graduate Studies
University of Central Florida
P.O. Box 160112
Millican Hall 230
Orlando, FL
32816-0112

or

tax to (407) 823-6442

**Transcript Requests**

For UCF students applying to UCF graduate programs: You do not need to request transcripts of your UCF coursework. The UCF College of Graduate Studies will request those transcripts internally.

Requests for official UCF transcripts are made through the Registrar's Office (in person, by mail, or by fax). "Transcript Request Forms" are also available on the Registrar's Office website. A student's academic record can be released only upon written authorization signed by the student. Telephone and e-mail requests are not accepted. Transcripts cannot be released if the student is on hold due to a financial obligation to the university. Transcript requests must include the student's signature, full name, identification number, and the name and complete address of the person(s) or organizations to whom transcripts are to be sent. If final grades or degree statement are needed, indicate that the transcript request is to be held until all requested data are posted.

A $10 per transcript charge is assessed for each transcript request. Payment for official transcripts is required at the time of the request and may be satisfied by cash, check or money order (made payable to UCF), credit card, or UCF Card. Requests received by mail must be accompanied by a check, money order, or credit card information (i.e., card type, card number, 3-digit Security Number, expiration date, and the name to which the card is registered.) Cash payments can be accepted only by the Cashier's Office during that office's regular business hours. The UCF Card payment option is available only at the main Orlando campus and must be made in person at the Registrar’s Office (MH 161). Mail written requests for transcripts to Registrar's Office, Attn: Transcripts, P.O. Box 160114, Orlando, FL 32816-0114. For fax request information and payment procedures, refer to the Registrar's Office website or call (407) 823-3100. Transcripts may be sent electronically to other Florida public institutions. Transcripts not claimed with 30 days of printing will be discarded and must be reordered. A $10 per reordered transcript fee must be submitted with the reorder request. Grades are available from myUCF.

**Enrollment Certifications**

Students may obtain their enrollment online through myUCF. Enrollment certification is free to currently enrolled students. Parents, employers, background checking firms, and other third-party agencies may request enrollment and degree verifications online at http://www.degreechk.com/. A fee will be assessed for all such requests. UCF has contracted with Credentials, Inc. to provide current enrollment, degree, and past attendance verifications online 24 hours a day, seven days a week. Credentials, Inc. Customer Service is available at 1-847-446-1027, ext. 104 between 7:00 a.m. and 7:00 p.m. CST/CDT Monday through Friday.

### Enrollment Status for Fall and Spring Terms

<table>
<thead>
<tr>
<th>Status</th>
<th>Nondegree-seeking</th>
<th>Degree-seeking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full</td>
<td>12 or more</td>
<td>Full</td>
</tr>
<tr>
<td>Half</td>
<td>6, 7, 8, 9, 10, or 11</td>
<td>Half</td>
</tr>
<tr>
<td>LTHT*</td>
<td>less than 6</td>
<td>LTHT*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.5**, 5, 6, 7, or 8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>less than 4.5</td>
</tr>
</tbody>
</table>

2021-2022 Graduate Catalog
### Enrollment Status for Summer Term

<table>
<thead>
<tr>
<th>Status</th>
<th>Credit Hours</th>
<th>Status</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nondegree-seeking</td>
<td></td>
<td>Degree-seeking</td>
<td></td>
</tr>
<tr>
<td>Full</td>
<td>12</td>
<td>Full</td>
<td>6</td>
</tr>
<tr>
<td>Half</td>
<td>6</td>
<td>Half</td>
<td>3</td>
</tr>
<tr>
<td>LTHT*</td>
<td>less than 6</td>
<td>LTHT*</td>
<td>less than 3</td>
</tr>
</tbody>
</table>

* LTHT = Less Than Half Time

** 4.5 hours applies only to College of Business Administration credit hours.

For students receiving university fellowships, assistantships, and tuition support, see [Full-time Enrollment Requirements](#) in the General Graduate Policies section of this catalog.

All Federal loan recipients must enroll at least half-time for each term that a loan is requested (that is, 4.5+ hours in fall/spring; 3+ hours in summer, regardless of classification). The in-school grace and deferment period of the loan remains as long as the student has enrolled at least halftime. Nondegree-seeking students have different requirements and should contact the Office of Student Financial Assistance for specific information.

Students on family insurance policies that require full-time status must take at least 9 hours per semester in the fall and spring terms (6 hours in the summer term) to be considered full time. Students classified as nondegree-seeking must enroll in at least 12 hours of coursework in order to be considered full time.

VA Educational Benefits—For degree and nondegree-seeking students, the VA benefits pay levels for credit hour enrollment are:

<table>
<thead>
<tr>
<th>Full</th>
<th>Credit Hours</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall and Spring Terms</td>
<td>9</td>
<td>Summer Term 6</td>
</tr>
<tr>
<td>3/4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall and Spring Terms</td>
<td>7 or 8</td>
<td>Summer Term 4 or 5</td>
</tr>
<tr>
<td>1/2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall and Spring Terms</td>
<td>6* (4.5**)</td>
<td>Summer Term 3*</td>
</tr>
</tbody>
</table>

* Tuition and Fee payments apply below these credit hours.
** Applies to College of Business Administration credit hours.

### Withdrawal Policy and Academic Record Change Requests

#### Withdrawals

Withdrawal for each term begins after "Late Registration and Add/Drop" ends. Students may withdraw from a class and receive the notation of "W" until the date noted in the "Academic Calendar" of the [Web Enrollment Guide](#). A student may withdraw from courses using myUCF at [https://my.ucf.edu](https://my.ucf.edu), or by visiting the Registrar’s Office (Millican Hall 161), certain college advising offices, or a Regional Campus records office. Students may withdraw by fax at (407) 823-5652. Faxed requests must be received by 5:00 p.m. on the last day to withdraw and must include the student’s identification number, the course(s) to be dropped, and the student’s signature. Students also may send a written request to the Registrar’s Office by mail (to P.O. Box 160114, Orlando, FL 32816-0114). This letter must be time-stamped or postmarked before the published withdrawal deadline and must include the student’s identification number, the course(s) to be dropped, and the student’s signature. Students seeking to withdraw in person must sign the request and must provide photo identification. The official date of withdrawal is the date the university receives the withdrawal request. Requests received by mail are processed using the postmark as the official date of withdrawal.

Withdrawing from classes may have financial aid, NCAA eligibility, or international Visa consequences. Students should seek appropriate advisement prior to withdrawing from a class.

A student is not automatically withdrawn from a class for not attending, nor can an instructor withdraw a student from a class. Upon request, the instructor will provide the student with an assessment of the student’s performance in the course prior to the last day of withdrawal.

If a graduate student withdraws from a course while an alleged academically dishonest act is under consideration, and the case is not subsequently resolved in favor of the student, the university reserves the right to assign the appropriate grade for the course.

#### Late Withdrawals

Withdrawals are not permitted after the deadline except in extraordinary circumstances such as being the primary caretaker of an
Information see the Parking Services appropriate permit or decal. Parking Services offers assistance to motorists, including battery jump-starts and unlocking car doors. For more All vehicles parked on campus, including evening students' vehicles, must be registered with the Parking Services Office and display the Parking UCF College of Graduate Studies of all changes related to enrollment, graduate status, or financial support.

Student Responsibility to Inform Offices

All graduate students who have financial aid, or who need financial support in order to attend UCF, should be sure to inform all appropriate offices of all changes related to enrollment, graduate status, or financial support.

Parking

All vehicles parked on campus, including evening students' vehicles, must be registered with the Parking Services Office and display the appropriate permit or decal. Parking Services offers assistance to motorists, including battery jump-starts and unlocking car doors. For more information see the Parking Services website.

Visitor Information Center

To park on campus without a decal, purchase a daily permit at the Visitor Information Center across from the Duke Energy University Welcome Center or from the pay-and-display machines on campus. Daily permits are valid only in student lots. Meters are also available in selected locations.

Medical Withdrawals

Graduate students who seek a withdrawal because they are ill must apply for a medical withdrawal. A medical withdrawal is considered if the student is unable to complete the semester due to a serious mental or physical medical condition. A medical withdrawal applies to all classes taken that semester. Students who request a medical withdrawal from selective classes must provide a compelling reason and documentation.

The student's medical provider(s) will need to provide appropriate medical documentation using the form provide by the College of Graduate Studies. The medical provider must confirm that the illness was such a severity or duration to preclude the completion of the course(s). The medical condition should have arisen during the given semester from which the withdrawal is sought. If the student was aware of the medical condition prior to the beginning of the semester, he/she must provide medical documentation demonstrating that there was a change in the condition during the semester that resulted in an inability to meet course requirements.

If a medical withdrawal is approved, a "WM" will be recorded for each course. A "WM" grade has no effect on your GPA. Graduate students who receive a medical withdrawal may be placed on hold until the university can determine that the student is ready to return.

A medical withdrawal should be submitted as soon as possible when the medical condition arises. If the student's medical condition does not permit the student to submit the withdrawal request during the semester in which the medical withdrawal is sought, the student has up to six months following the end of the semester to submit for approval and to qualify for a tuition refund.

Late Drops

Graduate students with circumstances determined by the university to be exceptional and beyond their control may apply for a cancellation of enrollment and the elimination of fee liability. Exceptional circumstances include, but are not limited the death of an immediate family member, involuntary call to military service, or an administrative error created by the university. A late drop is for all classes taken that semester. Graduate students must submit a petition and all supporting documentation for a late drop of courses to the College of Graduate Studies (Millican Hall 230; (407) 823-2766) within six months of the end of the semester for which the late drop is sought. If approved, a late drop will result in a full refund of tuition and the complete removal of the courses from the academic record.

Late Adds

A late add is considered when a student is unable to add a course(s) by the add deadline as outlined in the Academic Calendar. It is reserved for an unavoidable delay in adding a class or an administrative error in the registration process or advising. A late add can be requested by either a student or a program representative on behalf of a student. A late add is not approved beyond the second week of classes unless there are well-documented extenuating circumstances and instructor approval.

Financial Support

Graduate students who will be supported on assistantships should contact their hiring department to see that their assistantship agreement and other hiring documents are completed. Paychecks are delayed when these arrangements are not made prior to the beginning of the semester. All graduate students who are receiving fellowships should register as early as possible so that payment arrangements can be made by the UCF College of Graduate Studies.

Student Responsibility to Inform Offices

All graduate students who have financial aid, or who need financial support in order to attend UCF, should be sure to inform all appropriate offices of all changes in financial status. Remember to inform the departmental office, the Office of Student Financial Assistance, and the UCF College of Graduate Studies of all changes related to enrollment, graduate status, or financial support.

Parking

All vehicles parked on campus, including evening students' vehicles, must be registered with the Parking Services Office and display the appropriate permit or decal. Parking Services offers assistance to motorists, including battery jump-starts and unlocking car doors. For more information see the Parking Services website.

Visitor Information Center

To park on campus without a decal, purchase a daily permit at the Visitor Information Center across from the Duke Energy University Welcome Center or from the pay-and-display machines on campus. Daily permits are valid only in student lots. Meters are also available in selected locations.
Financial Information

Graduate education provides personal enrichment and a deeper understanding of some aspect of the world around us but also is an important investment in the future of a community. It is an investment on the part of the student that opens the door to new careers, wider choices of work assignments, and greater opportunities for advancement to higher paying jobs. It is also an investment on the part of the university and the community as a whole in the training of the next generation of workers, leaders, educators, innovators, and contributing citizens. Besides the time investment, a graduate student has financial expenses that include tuition and education-related fees, instructional supplies, and living expenses. UCF helps to offer the opportunities provided by graduate education at a very reasonable cost.

For a significant portion of the graduate student population at UCF, the process of learning and being trained for disciplines that require graduate-level education includes participating in the research, teaching, and community-building missions of the University. This partnership between graduate students and the University is recognized by both the University and the State of Florida by means of financial support in the form of fellowships, tuition remission, and research and teaching assistantships. Many of the assistantship appointments represent professional opportunities as well as a means of financial support.

To qualify for fellowships, tuition remission, or assistantships, graduate students are expected to be enrolled full-time in a degree program. Assistantship appointments require the student to be engaged in paid appointments that promote the missions of the University. The details of these requirements are described in the Financial Support Requirements, as well as in the fellowships, assistantships, tuition support, and health insurance pages in the Financial Information section of this catalog.

Financial Support Requirements

- Graduate Fellowships
- Graduate Assistantships
- Graduate Tuition Support
- Paid Health Insurance Coverage
- Student Financial Assistance
- Tax Obligations
- Tuition and Fees Costs and Residency

UCF Online

Courses

UCF Online Programs and Students

Online Graduate Certificates

Fully Online Graduate Degree Programs

Courses

UCF offers hundreds of online courses to all students every semester. The online course materials and methods have been developed by UCF faculty members to maximize the learner's achievement of course and program objectives and to provide students with convenient and flexible learning opportunities.

Support for all students in online courses is available at https://cdl.ucf.edu/support/student/. Online courses are identified in the Class Schedule Search available at my.ucf.edu. In the Additional Search Criteria section, use the drop-down list next to Mode of Instruction to search by online class modalities.
UCF’s fully online instruction modes are Web-Based (W) and Video (V). More information on all UCF instruction modes and important course attributes is available at https://cdl.ucf.edu/support/student/modalities/.

UCF Online Programs and Students

dozens of programs that can be completed entirely with online courses. These programs are available to all students and UCF Online provides an option for students who are interested in taking online courses exclusively. Newly admitted students who choose this option may not enroll in classes with scheduled face-to-face meetings. This includes classes coded P (face-to-face instruction), RS, and M (Mixed-mode/reduced seat time).

Students enrolled as a UCF Online student are exempt from some campus-based fees and are restricted from the corresponding campus-based services such as the Recreation and Wellness Center and Student Health Services. UCF Online students do have access to all academic and support services such as financial aid, advising, library services, and career services. UCF Online students also have the support of a dedicated staff of success coaches specifically trained and enabled to meet the needs of students without regular access to UCF’s physical campuses. See www.ucf.edu/online for more information.

Online Graduate Certificates

- **Applied Photonics Graduate Certificate**
- **Autism Spectrum Disorders Graduate Certificate**
- **College Teaching and Leadership Graduate Certificate**
- **Conflict Resolution and Analysis Graduate Certificate**
- **Corrections Leadership Graduate Certificate**
- **Crime Analysis Graduate Certificate**
- **Cyber Risk Management Graduate Certificate**
- **Data Analytics Graduate Certificate**
- **Data Modeling Graduate Certificate**
<table>
<thead>
<tr>
<th>Certificate</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Destination Marketing and Management Graduate Certificate</td>
<td>ONLINE</td>
</tr>
<tr>
<td>e-Learning Design, Development, and Delivery Graduate Certificate</td>
<td>ONLINE</td>
</tr>
<tr>
<td>Event Management Graduate Certificate</td>
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<tr>
<td>Financial Mathematics Graduate Certificate</td>
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<tr>
<td>FinTech Graduate Certificate</td>
<td>ONLINE</td>
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<tr>
<td>Fundraising Graduate Certificate</td>
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<tr>
<td>Gender Studies Graduate Certificate</td>
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<td>Gifted Education Graduate Certificate</td>
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<td>Health Care Simulation Graduate Certificate</td>
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<td>Healthcare Systems Engineering Graduate Certificate</td>
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<td>Hospitality and Tourism Technologies Graduate Certificate</td>
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<td>Initial Teacher Professional Preparation Graduate Certificate</td>
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<td>Instructional Design Graduate Certificate</td>
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<td>Instructional Design for Simulations Graduate Certificate</td>
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<td>Instructional/Educational Technology Graduate Certificate</td>
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<td>Juvenile Justice Leadership Graduate Certificate</td>
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<tr>
<td>Local Director of Career and Technical Education Graduate Certificate</td>
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<td>Mathematical Science Graduate Certificate</td>
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<td>Nonprofit Management Graduate Certificate</td>
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<tr>
<td>Nursing Education Graduate Certificate</td>
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<td>Optical Imaging Systems Graduate Certificate</td>
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<td>Police Leadership Graduate Certificate</td>
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<td>Prekindergarten Disabilities Graduate Certificate</td>
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<td>Professional Writing Graduate Certificate</td>
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<td>Project Engineering Graduate Certificate</td>
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<td>Public Administration Graduate Certificate</td>
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<td>Quality Assurance Graduate Certificate</td>
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<td>Research Administration Graduate Certificate</td>
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<td>Research Smarts Graduate Certificate</td>
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<td>Special Education Graduate Certificate</td>
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<td>Systems Engineering Graduate Certificate</td>
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<td>Theoretical and Applied Ethics Graduate Certificate</td>
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**Fully Online Graduate Degree Programs**

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<thead>
<tr>
<th>Program Title</th>
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<tr>
<td>Aerospace Engineering MSAE</td>
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<td>ONLINE</td>
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<tr>
<td>Applied Learning and Instructions MA</td>
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<td>ONLINE</td>
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<tr>
<td>Career and Technical Education MA</td>
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<tr>
<td>Civil Engineering MS</td>
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<td>Civil Engineering MSCE</td>
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<tr>
<td>Criminal Justice MS</td>
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<tr>
<td>Digital Forensics MS*</td>
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<td>ONLINE</td>
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<tr>
<td>Educational Leadership MA</td>
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2021-2022 Graduate Catalog
<table>
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<tr>
<th>Program Name</th>
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<tbody>
<tr>
<td>Elementary Education MEd</td>
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<tr>
<td>Emergency and Crisis Management MECM</td>
<td>ONLINE</td>
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<tr>
<td>Engineering Management MSEM*</td>
<td>ONLINE</td>
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<tr>
<td>English MA</td>
<td>ONLINE</td>
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<tr>
<td>Environmental Engineering MS</td>
<td>ONLINE</td>
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<tr>
<td>Environmental Engineering MSEnvE</td>
<td>ONLINE</td>
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<tr>
<td>Exceptional Student Education MEd</td>
<td>ONLINE</td>
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<tr>
<td>Forensic Science MS</td>
<td>ONLINE</td>
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<tr>
<td>Health Administration MHA</td>
<td>ONLINE</td>
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<tr>
<td>Health Care Informatics MS, Professional Science Master's</td>
<td>ONLINE</td>
</tr>
<tr>
<td>Hospitality and Tourism Management MS</td>
<td>ONLINE</td>
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<tr>
<td>Industrial Engineering MS*</td>
<td>ONLINE</td>
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<tr>
<td>Industrial Engineering MS - Healthcare Systems Engineering</td>
<td>ONLINE</td>
</tr>
<tr>
<td>Industrial Engineering MSIE*</td>
<td>ONLINE</td>
</tr>
<tr>
<td>Instructional Design and Technology MA, Educational Technology Track</td>
<td>ONLINE</td>
</tr>
<tr>
<td>Instructional Design and Technology MA, e-Learning Track</td>
<td>ONLINE</td>
</tr>
<tr>
<td>Instructional Design and Technology MA, Instructional Systems Track</td>
<td>ONLINE</td>
</tr>
<tr>
<td>Materials Science and Engineering MSMSE*</td>
<td>ONLINE</td>
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<tr>
<td>Mechanical Engineering MSME</td>
<td>ONLINE</td>
</tr>
<tr>
<td>Nonprofit Management MNM</td>
<td>ONLINE</td>
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<tr>
<td>Nursing MS</td>
<td>ONLINE</td>
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</table>
Nursing Practice DNP
Nursing PhD
Optics and Photonics MS
Public Administration MPA
Reading Education MEd
Research Administration MRA
Social Work MSW
Systems Engineering, MSSE
Teacher Education MAT
Travel Technology and Analytics MS

*Note: There may be some courses in the degree and certificate programs above that require limited on-campus attendance for examinations or other activities.

The University of Central Florida has been approved by Florida to participate in National Council for State Authorization Reciprocity Agreements. The reciprocity agreements allow for the open delivery of academic credit-earning activities in participating states, including academic field experiences such as internships or practicums. More information available at registrar.ucf.edu/restrictions.

Contact
UCF Online
(855) 903-8576
Web Address: www.ucf.edu/online/

Accreditation

Overview
Graduate Admission Requirement
Recognized Institution
Other Accreditations

Overview

The University of Central Florida is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award degrees at the associate, baccalaureate, master’s, specialist, and doctoral levels. Questions about the accreditation of UCF may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC’s website (www.sacscoc.org).

More information about UCF’s SACSCOC accreditation may be found at apq.ucf.edu/institutional-accreditation.

For the purposes of this catalog, “accredited institutions recognized by UCF” means those institutions accredited by one of the following seven U.S. associations:
Graduate Admission Requirement

In order to enroll in graduate classes, students must have obtained a baccalaureate or higher degree, prior to the start of the term for which the student is admitted, from an institution accredited by one of the above accrediting agencies or from a recognized foreign institution. Students without a baccalaureate or higher degree from an appropriately accredited institution (or equivalent) are not admitted to graduate degree programs, graduate certificate programs, or graduate nondegree status.

Recognized Institution

A "recognized institution" in a country outside of the United States is an institution that is recognized by that nation’s Ministry of Education or similar authority, as a postsecondary, academic degree granting institution.

Other Accreditations

In addition to the accreditation agencies recognized by UCF, there are a number of scientific, professional, and academic bodies conferring accreditation in specific disciplines. Several UCF graduate programs are accredited or are similarly recognized by one or more of the following agencies:

- Accreditation Committee of the Human Factors and Ergonomics Society (HFES)
- American Psychological Association Commission on Accreditation (APA-CoA)
- American Speech-Language-Hearing Association (ASHA)
- The Association to Advance Collegiate Schools of Business (AACSB International)
- Commission on Accreditation of Athletic Training Education (CAATE)
- Commission on Accreditation for Health Informatics and Information Management (CAHIIM)
- Commission on Accreditation in Physical Therapy Education (CAPTE)
- Commission on Accreditation of Healthcare Management Education (CAHME)
- Commission on Collegiate Nursing Education (CCNE)
- Council for Accreditation of Counseling and Related Educational Programs (CACREP)
- Council on Social Work Education (CSWE)
- Florida Department of Education
- Liaison Committee on Medical Education (LCME)
- National Association of School Psychologists (NASP)
- National Association of Schools of Music (NASM)
- National Association of Schools of Theatre (NAST)
- Network of Schools of Public Policy, Affairs and Administration (NASPAA)
- Planning Accreditation Board (PAB)

Archived Catalogs

2020-2021
2019-2020
2018-2019
2017-2018
2016-2017
2015-2016

The UCF Library maintains an archive of Graduate Catalogs. For previous Graduate Catalogs, search the UCF Catalogs: stars.library.ucf.edu/ucfcatalogs.
Policies

1. General University Policies

Classroom Responsibility

Students are responsible for maintaining classroom decorum appropriate to the educational environment. When the conduct of a student or group of students varies from acceptable standards and becomes disruptive to normal classroom procedures, the instructor has the authority to remove the offending party from the room and refer the student to the Office of Student Conduct (SRC 155) for disciplinary action.

Credit Hour

A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out of class student work each week for approximately fifteen weeks for one semester or the equivalent amount of work over a different amount of time; or
2. At least an equivalent amount of work as required in paragraph (1) of this definition for academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

Golden Rule

The Golden Rule is the university's policy regarding non-academic discipline of students and limited academic grievance procedures for graduate (grade appeals in individual courses, not including thesis and dissertation courses) and undergraduate students. Information concerning The Golden Rule can be found at www.goldenrule.sdes.ucf.edu. Section 11, Student Academic Behavior, addresses appeals of graduate program actions or decisions.

Non-Discrimination Statement

The University of Central Florida does not unlawfully discriminate in any of its education or employment programs and activities on the basis of an individual's race, color, ethnicity, national origin, religion (or non-religion), age, genetic information, sex (including pregnancy and parental status), gender identity or expression, sexual orientation, marital status, physical or mental disability (including learning and intellectual disabilities), political affiliations, prior conviction of a crime, protected veteran's status or membership in any other protected classes as set forth in state or federal law. The University prohibits discrimination based on these protected classes, which includes the prohibition of discriminatory harassment, sexual assault, sexual exploitation, relationship violence, stalking, sexual or gender-based harassment, and retaliation against a person for the good faith reporting of any of these forms of conduct or participation in or party to any investigation or proceeding related to a report of these forms of conduct.

Discriminatory harassment consists of verbal, physical, electronic or other conduct based upon an individual's protected class as set forth above that interferes with that individual's educational or employment opportunities, participation in a University program or activity, or receipt of legitimately-requested services under either Hostile Environment Harassment or Quid Pro Quo Harassment. Hostile Environment Harassment is discriminatory harassment that is so severe, persistent or pervasive that it unreasonably interferes with, limits, deprives, or alters the conditions of education (e.g., admission, academic standing, grades, assignment); employment (e.g., hiring, advancement, assignment); or participation in a University program or activity (e.g., campus housing), when viewed from both a subjective and objective perspective. Quid Pro Quo Harassment is discriminatory harassment where submission to or rejection of unwelcome conduct is used, explicitly or implicitly, as the basis for decisions affecting an individual’s education; employment; or participation in a University program or activity.

Sexual harassment is any unwelcome sexual advance, request for sexual favors, or other unwanted conduct of a sexual nature, whether verbal, non-verbal, graphic, physical or otherwise, when the conditions for Hostile Environment Harassment or Quid Pro Quo Harassment are present. Gender-based harassment includes harassment based on gender, sexual orientation, gender identity, or gender expression, which may include acts of aggression, intimidation, or hostility, whether verbal or non-verbal, graphic, physical, or otherwise, even if the acts do not involve conduct of a sexual nature, when the conditions for Hostile Environment Harassment or Quid Pro Quo Harassment are present. Sexual assault consists of sexual contact and/or sexual intercourse that occurs without consent. Sexual exploitation is purposely or knowingly doing or attempting to do any of the following: recording or photographing private sexual activity and/or a person's intimate parts (including genitalia, groin, breasts or buttocks) without consent; disseminating or posting images of private sexual activity and/or a person's intimate parts; or allowing third parties to observe private sexual activity from a hidden location (e.g., closet) or through electronic means (e.g., Skype or live streaming of images); subjecting another person to human trafficking; or exposing another person to a sexually transmitted infection or virus without the other's knowledge. Relationship violence includes any act of violence or threatened act of violence that occurs between individuals who are involved or have been involved in a sexual, dating, spousal, domestic, or other intimate relationship. Stalking occurs when a person engages in a course of conduct directed at a specific person under circumstances that...
would cause a reasonable person to fear for the persons safety or the safety of others, or to experience substantial emotional distress.

A student or employee determined by the University to have committed an act of discrimination as described above is subject to disciplinary action, up to and including permanent separation from the University. Third Parties who commit these acts may have their relationships with the University terminated and/or their privileges of being on University premises withdrawn.

Most University faculty and staff (including professors, lecturers, instructors, academic advisors, trainers coaches, and resident assistants) are not confidential employees and are required to immediately report to the University's Title IX Coordinator, Matt Ricke, phone (407) 823-1336 all relevant details (obtained directly or indirectly) about an incident of sexual assault, relationship violence and/or stalking that involves any student. Confidential employees (including Health Services employees, Counseling and Mental Health Services employees, Ombuds Office employees, Student Legal Services employees and Victim Services employees) are not required to make these reports and will not disclose information without the permission of the student (subject to limited exceptions). More information about UCF's resources and reporting options for individuals who have experienced sexual harassment (including sexual violence) and related policies can be found at https://letsbeclear.ucf.edu/

Employees, students, contractors, vendors, visitors, guests or third parties may obtain further information on this policy, including grievance procedures, from the Office of Institutional Equity (OIE). Nancy Myers, OIE Director, is responsible for the University's response to all forms of discrimination based on a protected class, and Matt Ricke is the Title IX Coordinator who is responsible for the University's response to reports of sex discrimination. For more information about OIE, please visit the OIE website or call (407) 823-1336.

Records

Student records submitted to the university become the property of the university and cannot be returned to or copied for the student or released to a third party. Student records are digitally scanned.

Family Educational Rights and Privacy Act (FERPA)

The procedures for protecting the confidentiality of student records are based on state regulations and the federal Family Educational Rights and Privacy Act of 1974. FERPA affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student's education records within 30 days of the day the University receives a written request for access. Students should submit to the University Registrar, dean, head of the academic department, or other appropriate officials, written requests that identify the record(s) they desire to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed;

2. The rights to request the amendment of the student's education records that the student believes are inaccurate or misleading. The student may ask the University to amend a record that he or she believes is inaccurate or misleading. The student should write the University official responsible for the record, clearly identify the part of the record to be changed, and specify why the current record is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of their right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing;

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing their tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill their professional responsibility; and

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by a State University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington DC, 20202-4605.

Directory Info

FERPA authorizes the University to classify certain information concerning students as directory information, which means that it may be released to anyone upon request. In accordance with Florida Statutes Section 228.093, the University is required to release student directory information to independent vendors upon request. Directory information at UCF includes:

- name,
- current mailing address,
- telephone number,
- date of birth,
- major field of study,
- dates of attendance,
- enrollment status,
- degrees and awards received,
- participation in officially registered activities and sports, and
- athletes height and weight.
All other student information will be released in accordance with FERPA; in most cases, this requires the student’s prior written and signed consent. The University extends to students the opportunity to withhold any or all information, including directory information. Students can do this online at https://my.ucf.edu > Student Self Service > Student Center > Personal Information > FERPA/Directory Restriction or complete the Directory Disclosure/Release Authorization form available at the Registrars Office (Millican Hall 161) or at https://registrar.ucf.edu/, requesting that this information be withheld. The Golden Rule outlines the University procedures for confidentiality. For additional information describing FERPA policy, go to the Department of Education Family Policy Compliance Office website.

Higher Education Act

Lists, descriptions, and sources of information required for disclosure under the Higher Education Act may be obtained from the Registrars Office (Millican Hall 161) or from the Registrars website (Higher Education Act).

Religious Observances

It is the policy of the University of Central Florida to reasonably accommodate the religious observances, practices, and beliefs of individuals in regard to admissions, class attendance, and the scheduling of examinations and work assignments. A student who desires to observe a religious holy day of their religious faith will notify all of their instructors and be excused from classes to observe the religious holy day.

The student will be held responsible for any material covered during the excused absence but will be permitted a reasonable amount of time to complete any work missed. Where practicable, major examinations, major assignments, and university ceremonies will not be scheduled on a major religious holy day.

Students who are absent from academic or social activities because of religious observances will not be penalized. A student who believes that they have been unreasonably denied an educational benefit due to their religious belief or practices may seek redress under the Student Grievance Procedure, located in The Golden Rule.

Sexual Harassment Policy

The University of Central Florida values diversity in the campus community. Accordingly, discrimination on the basis of race, sex, national origin, religion, age, disability, marital status, parental status, veterans status, sexual orientation, or genetic information is prohibited.

Sexual harassment, a form of sex discrimination, is defined as unwelcome sexual advances, requests for sexual favors, or verbal or physical conduct of a sexual nature including any of these three situations:

1. Submission to such conduct is made either explicitly or implicitly a term or condition of an individual’s employment or enrollment.
2. Submission to or rejection of such conduct by an individual is used as the basis for employment or enrollment decisions affecting such individual.
3. Such conduct has the purpose or effect of substantially interfering with an individual’s work performance or enrollment, or creating an intimidating, hostile, or offensive working or academic environment.

Sexual harassment is strictly prohibited. Occurrences will be dealt with in accordance with the guidelines above and university rules. Employees, students, or applicants for employment or admission may obtain further information on this policy, including grievance procedures, from the OIE Coordinator. The Director of the Office of Institutional Equity Programs is the campus Equity Coordinator responsible for concerns in all areas of discrimination. The office is located on the main campus, in Barbara Ying CMMS Building 81, Suite 101. The phone number is (407) 823-1336. Policies and guidelines are available online at http://www.eeo.ucf.edu.

Student Conduct

Students are subject to federal and state laws and local ordinances as well as regulations prescribed by the University of Central Florida and the Florida Board of Governors. The breach or violation of any of these laws or regulations may result in disciplinary action. Behavioral breaches of state law, UCF requirements, or program expectations are grounds for dismissal from the program of study and the university. Detailed conduct regulations and procedures are presented in The Golden Rule.

A person applying for admission to UCF who has declared an adjudication of a violation of conduct policies at a previous college or university or a violation of the law that resulted in probation, community service, a jail sentence, or the revocation or suspension of their driver’s license (including traffic violations that resulted in a fine of $200 or more) will have circumstances of the case reviewed by the Office of Student Conduct (Ferrell Commons, room 227) to consider eligibility for admission.

University Closings
University Notices

This catalog contains a description of the various policies, academic programs, degree requirements, course offerings, and related matters intended to be in effect at the University of Central Florida during the 2021/2022 academic year. However, any matter described in this catalog is subject to change. As a result, statements in this Graduate Catalog may not be regarded in the nature of binding obligations on the institution or the State of Florida, or as an irrevocable commitment from the University to the reader.

Drug-Free Workplace/Drug-Free Schools Policy Statement

Standards of conduct and disciplinary sanctions will be imposed for the unlawful possession, misuse or distribution of illicit drugs and alcohol by UCF students and employees on UCF property or as part of any of its activities. The unlawful manufacture, distribution, dispensation, possession or misuse of a controlled substance, prescription medication or the unlawful possession and use of alcohol is harmful and prohibited in and on UCF owned and controlled property or as part of any of its activities. Any UCF employee or student determined to have violated this policy shall be subject to disciplinary action for misconduct, an action which may include termination/expulsion and referral for prosecution. No employee/student is to report to work/class or attend any university activity while under the influence of illegal drugs or alcohol. Violation of these policies by an employee/student will be the reason for evaluation/treatment for drug/alcohol disorder and/or for disciplinary action up to and including termination/expulsion and/or referral for prosecution consistent with local, state and federal law.

Academic Behavior Standards

The University of Central Florida is committed to a policy of honesty in academic affairs. Examples of conduct for which students may be subject to academic and/or disciplinary penalties including expulsion are:

- **Cheating**, whereby non-permissible written, visual, or oral assistance including that obtained from another student is utilized on examinations, course assignments, or projects. The unauthorized possession or use of examination or course related material may also constitute cheating.
- **Plagiarism**, whereby another's work is deliberately used or appropriated without any indication of the source, thereby attempting to convey the impression that such work is the student's own. Any student failing to properly credit ideas or materials taken from another has plagiarized.
- **Unauthorized assistance**, which is communication to another through written, visual, or oral means where the presentation of material has not been studied or learned, but rather was obtained solely through someone else's efforts and used as part of an examination, course assignment or project. The unauthorized possession or use of examination or course related material may also constitute cheating.
- **Commercial Use of Academic Material**, which is selling notes, handouts, etc. without authorization or using them for any commercial purpose without the express written permission of the university and the Instructor is a violation of this rule.

NOTE: A student who has assisted another in any of the aforementioned breach of standards shall be considered equally culpable. In cases of cheating or plagiarism, the instructor may take appropriate academic action ranging from loss of credit for a specific assignment, examination, or project to removal from the course with a grade of “F”. Additionally, the instructor may request disciplinary action through the Office of Student Rights and Responsibilities as outlined in The Golden Rule.

Student Use of Technology

The University of Central Florida expects all students to have ready access to a personal computer and software appropriate to his or her field of study. Students can meet this expectation by purchasing or leasing a computer, sharing a computer with family or roommates, or using a UCF computer lab.

All UCF students should expect to use a personal computer in many university activities, including course work, accessing library information, registering for classes, and e-mailing correspondence to instructors or fellow students. In addition, many UCF courses require the use of the Internet.

The University of Central Florida has developed one of the nations most advanced campus technology environments, and all UCF students are provided free e-mail accounts and Internet access. Students wishing to acquire a personal computer are strongly advised to consider a laptop equipped with a wireless networking card. Recommended configurations can be found on the universitys website at [www.cstore.ucf.edu](http://www.cstore.ucf.edu).

Student Responsibility for University Communication

UCF uses email as the official means of notifying students of important university business and academic information concerning registration, deadlines, financial assistance, scholarships, student accounts (including tuition and fees), academic progress and problems, and many other critical items for satisfactory completion of a UCF degree program. The university sends all business-related and academic messages to a students Knights Email address to ensure that there is one repository for that information. Every student must register for, and maintain a Knights Email account at [https://extranet.cst.ucf.edu/krmailselfsvc](https://extranet.cst.ucf.edu/krmailselfsvc) and check it regularly to avoid missing important and critical information from the university. Any difficulty with establishing an account or with accessing an established account must be resolved through the UCF Computer Services Service Desk so that a student receives all important messages.

Additionally, each student must have an up-to-date emergency e-mail address and cell phone number by which to be reached in case of a crisis on campus. This emergency contact information will be used only for emergency purposes. Also, both permanent and local
mailing addresses must be on the record, so that any physical documents that must be mailed can be delivered.

It is critical that students maintain and regularly check their Knights Email account for official announcements and notifications. Communications sent to the Knights Email address on record will be deemed adequate notice for all university communication, including issues related to academics, finances, registration, parking, and all other matters. The University does not accept responsibility if official communication fails to reach a student who has not registered for, or maintained and checked on a regular basis, their Knights Email account. Please ensure that this information is current and that any changes in contact information are made online through the myUCF portal at https://my.ucf.edu/.

Complaint Policy

The University of Central Florida supports the right of students to file grievances, lodge complaints, and make appeals in a safe environment free of fear, retaliation, or other adverse consequence. The University has a number of offices and committees that are responsible for implementing the institution's established procedures for addressing written academic and non-academic student complaints.

In most cases, the recommended strategy for complaints of any nature is to ask the concerned individual to first contact the person or office most directly connected to the issue, unless there are compelling reasons not to do so. If the concerned individual does not want to contact a faculty or staff member directly, he or she begins with the next highest level of authority, which typically is the department chair or director. If the problem or complaint is unresolved or the individual is not satisfied with the resolution, they may file a written grievance or appeal. Specific procedures are included in specific sections of this catalog and the Golden Rule.

2. General Graduate Policies

Academic Common Market Scholars

The University of Central Florida is a participating institution in the Academic Common Market (ACM) program with other southern universities sharing unique academic programs on the undergraduate and graduate level. However, the University of Central Florida only participates at the graduate level.

The Academic Common Market offers students the opportunity to enter degree programs that are not available in their home state, while still being eligible to pay in-state tuition rates. Students taking part in this program must be admitted by a participating university (notifying that university of their planned attendance as an ACM Scholar) and will need to obtain a letter of certification from their respective ACM state coordinator.

The first step is to contact your respective state coordinator for information on how to apply for the Academic Common Market. Contact information for state coordinators can be found on the following website: http://home.sreb.org/acm/states.aspx.

After making contact with your state coordinator, if you are eligible for the ACM, you can apply to the University of Central Florida online through the website at https://applynow.graduate.ucf.edu/apply. When filling out the Florida Residency Classification section, select the option that states "I am a Florida Resident for tuition purposes" and fills out the entire section. Before saving the page, you will need to add an explanation for your Florida residency. Please select the letter "N", which states "I am a Southern Regional Education Board's Academic Common Market graduate student".

Upon submission of your application and your program's required admissions criteria, you will receive a decision from the program in which you have applied. If accepted, you can present that information to your state coordinator, who will then be able to provide UCF with a certification letter. With that letter, UCF will then be able to offer you Florida residency for tuition purposes.

The participating universities are located in the following states:

<table>
<thead>
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<th>Alabama</th>
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<td>Kentucky</td>
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*Only Florida, North Carolina, and Texas participate at the graduate level.

For more information, please contact the UCF College of Graduate Studies at (407) 823-2766 (Millican Hall 230, P.O. Box 160112, Orlando, FL 32816-0112). Additional information on the Academic Common Market, including contact information for state coordinators and all available academic programs, can be found on the Southern Regional Education Board (SREB) website, www.sreb.org.

Academic Grievance Procedure

The UCF College of Graduate Studies allows for petitions of university requirements and their academic matters. Academic matters are
those involving instruction, research, or decisions involving instruction or affecting academic freedom.

The academic grievance procedure is designed to provide a fair means of dealing with graduate student complaints regarding a specific action or decision by a faculty member, program or college, including termination from an academic program. Academic misconduct complaints associated with sponsored research will invoke procedures outlined by the Office of Research.

Students who believe they have been treated unfairly may initiate a grievance. The procedure provides several levels of review, and at each level of review, the participants are further removed and have a broader outlook than where the grievance originated. Procedures for initiating an academic grievance can be found at The Golden Rule www.goldenrule.sdes.ucf.edu/ (see section 11).

Petitions of Graduation Requirements Procedures

Students have the responsibility to familiarize themselves with policies and procedures of the university, college, and program. Students are responsible for knowing the degree requirements and for following the policies that govern the academic program. However, when unusual instances arise, making it appropriate for students to request exceptions of existing graduate academic policies for graduate students, graduate students may petition the appropriate unit for an exception to this requirement. The university is always looking for the compelling reason that an exception is warranted, so this needs to be carefully described in any petition. The procedures are:

1. The graduate student completes a Graduate Petition Form and submits it to the graduate program director, specifying the requirement (either a program or university requirement) and the exception desired. The graduate student needs to provide a compelling reason for an exception to be made.
2. The graduate program director may ask the program graduate committee to examine and provide advice about the petition to the graduate program director. The graduate program director will then make a recommendation about the exception to the unit head. The unit head will then make a final recommendation.
3. The petition will then be sent to the College of Graduate Studies for a final decision. The Vice President for Research and Dean of the College of Graduate Studies may ask the Appeals Committee of the Graduate Council of the Faculty Senate to examine the information provided in the petition at their next scheduled meeting and make a recommendation concerning the petition to the Vice Provost and Dean.
4. The Vice President for Research and Dean of the College of Graduate Studies may consider the input of the Appeals Committee of the Graduate Council and will make a final decision about the petition for the university.

### Academic Progress and Performance

#### Review of Academic Progress

The primary responsibility for monitoring academic performance standards rests with the degree or certificate program. However, the academic college and the UCF College of Graduate Studies will monitor a student's progress and may dismiss any student if performance standards or academic progress as specified by the program, college, or university are not maintained. Satisfactory academic performance in a program includes maintaining at least a 3.0 graduate status GPA (defined below) in all graduate work taken since admission into the program. Satisfactory performance also involves maintaining the standards of academic progress and professional integrity expected in a particular discipline or program.

#### Graduate Status GPA

A graduate status GPA will be calculated based on the graduate courses taken at UCF since admission into each degree or certificate program. The graduate status GPA is used to monitor the student's progress in the program. The university requires that students must maintain a graduate status GPA of at least 3.0 or higher in order to maintain regular graduate student status, receive financial assistance, and qualify for graduation. This GPA requirement cannot be waived.

In addition, a graduate status GPA will be calculated for nondegree students based on graduate courses taken at UCF while in nondegree status. However, nondegree students' academic standing will not be monitored as it relates to the probationary status or dismissal as outlined below.

Please note that the graduate status GPA does not carry forward from one program to another or from nondegree status into a degree or certificate program.

#### Probationary Status and Dismissal - Students in a Degree or Certificate Program

In order to earn a graduate degree or graduate certificate at the University of Central Florida, students must have a minimum 3.0 Graduate Status GPA. To ensure that graduate students adhere to this requirement, the College of Graduate Studies conducts GPA audits at the end of each semester. Any student not achieving this mark will be placed on Academic Probationary Status. This is a formal designation. Students may also be placed on Academic Probation or Dismissed for S/U graded courses, but the College of Graduate Studies will not conduct audits of S/U grades. See Maximum Hours of Unsatisfactory Grades for these performance requirements and Review of Academic Performance and Student Conduct for other grounds for probation or dismissal.

When Graduate Status GPA falls below a 3.0, the following occurs:

1. Impacted students will receive notice from the College of Graduate Studies.
2. The probationary status will be imprinted on the student’s advising transcript and will remain for each successive semester while on probation. This information remains as a permanent record on the transcript.
3. Students will have a maximum of 18 graduate credit hours of graded A-F course work from their Graduate Plan of Study to increase their Graduate Status GPA to 3.0 or higher.
4. Students who have fewer than 18 credit hours of course work left in their Graduate Plan of Study will only have the number of remaining credit hours toward degree completion to attain the 3.0 Graduate Status GPA.

5. Students who cannot mathematically attain a 3.0 Graduate Status GPA, either through the 18 credit hours of course work or through the remaining credit hours to degree completion, will be formally dismissed without the probationary period.

Exceptions can be made for students who start their final semester of coursework with a 3.0 (or higher) Graduate Status GPA, but fail below a 3.0 when grades post at the end of the final semester of coursework. In this case, the student will be put on probation and may enroll in up to 6 credit hours of electives from their graduate program's approved list of electives. If the student cannot remedy the GPA in 6 hours, the student will be dismissed.

6. At the end of each semester, the College of Graduate Studies will continue to monitor each student on probation. If further audits reveal that it is mathematically impossible to attain the 3.0, students on probation will be dismissed from the program.

7. Once the 3.0 Graduate Status GPA is met, the student will automatically be removed from Academic Probationary Status and be notified by appropriate communication from the College of Graduate Studies.

8. Students who are placed on probation with Incomplete (I) grades on their record or who earn I grades while on probation are expected to complete their work to satisfy the course requirements as soon as is possible. Once the grade has changed to an A-F letter grade, Graduate Status GPA will be recalculated retroactively to the semester in which the I grade was earned. This updated Graduate Status GPA may cause a student to be dismissed (if it is no longer mathematically possible to earn a 3.0 in the probationary period) or removed from probation (if the 3.0 is now achieved).

9. Incomplete grades can also cause a student who was not on probation to be placed on probation retroactively to the semester of the I grade (when the updated Graduate Status GPA is now lower than a 3.0). All grades following that semester will now be part of the probationary period.

10. International students placed on Academic Probationary Status will be sent to UCF Global for advisement regarding the immigration status implications of this action.

11. Students enrolled in multiple graduate programs may be placed on probation for all graduate programs, depending on their initial admit term to each program. When a student's initial admit term is the same for multiple programs, then the student who falls below a 3.0 will be placed on probation for all programs. If the student's initial admit term is different for each graduate program, the probation is determined for each program, based on the Graduate Status GPA since the initial admit term for each program. In this case, the student may be placed on probation for one or more programs, depending on that calculation. The College of Graduate Studies will inform students about their standing in each program.

Students placed on probation are required to meet with their graduate program director to create a Probation Plan. This plan will state the maximum number of hours that the student can remain on probation (if there are fewer than 18 hours left of graded courses in the student's Graduate Plan of Study) and may include specific direction on courses to be taken and the timing of those courses. In addition, the plan may include other conditions as necessary for the continued enrollment of the student in the program such as retaking courses, taking remedial course work in specified areas, or completing special projects to better prepare the student for success in the program. Failure to meet any of the conditions of the Probation Plan may result in dismissal without any further appeal.

The plans are signed by the student and the graduate program director and submitted to the College of Graduate Studies for review and approval. The primary responsibility for monitoring the progress of the student in meeting the terms of the Probation Plan rests with the degree or certificate program, although the appropriate academic college and the College of Graduate Studies may also monitor the plans for compliance.

After dismissal for low GPA, the student may re-apply to the graduate program from which he/she was dismissed after one year of non-enrollment in that program. The student must submit a completely new application (application fee, letters of reference if applicable, AND a statement describing why the student thinks he/she is more capable now to successfully complete the program). If the program admits the student, the student will continue to have the original dismissal denoted on the transcript and will continue with the same graduate status GPA that the student held prior to dismissal. Also, the student is admitted on restricted status. The restriction is that the student must bring their cumulative Graduate Status GPA up to at least a 3.0 in the next 9 hours of enrollment. Graduate programs may not readmit students in cases where it is not mathematically possible to achieve a 3.0 Graduate Status GPA in the next 9 hours of enrollment.

Previously dismissed students accepted into a new program will have a new Graduate Status GPA (see Graduate Status GPA section above).

NOTE: Individual graduate programs may have more stringent grade requirements than described above. Students must abide by the academic performance standards of their graduate program.

Maximum Hours of Unsatisfactory Grades

"C" grades (C, C+, C-), as well as D, D+, D-, F and U grades, are all considered unsatisfactory grades.

A student may apply a maximum total of six semester credit hours of "C" grades, or the "C" grade credits associated with at most two classes, whichever is greater, to satisfy degree program requirements.

Exceeding six semester credit hours of unsatisfactory grades is grounds for dismissal for all degree-seeking and nondegree students. A course in which a student has received an unsatisfactory grade may be repeated, however, both grades will be used in computing the GPA. There is no forgiveness policy for any course taken while in graduate status.

Incomplete Grades

A grade of "I" (incomplete) is assigned by the instructor when a student is unable to complete a course due to extenuating circumstances, and when all requirements can clearly be completed in a short period of time following the close of regular classes. In all circumstances where the "I" grade is received, the student and faculty member must complete an agreement form that specifies how and when the incomplete grade will be made up. This agreement form is submitted with the instructor grade rolls at the end of the semester, and a copy of this agreement is given to the Graduate College for further follow-up. For those students on financial assistance such as loans, the incomplete "I" must be made up by the agreement date. Failure to complete course requirements by that date may, at the discretion of the instructor, result in the assignment of an "F" grade, or a "U" grade for thesis, dissertation, or research report hours. It is the student's responsibility to arrange with the instructor for the changing of the "I" grade.
Assistantship Opportunities

As part of a program's professional development plan for students, full-time graduate students may be offered the opportunity to gain experience as a Graduate Teaching Assistant (or Associate or Grader; GTA), Graduate Research Assistant (or Associate; GRA), or Graduate Assistant. Please visit the Financial Information section in the catalog for more information.

Assignments to these professional development activities are intended to supplement the student's academic program of study in order to give the student professional experiences that will enhance the student's development and prepare them for post-graduation employment. While these activities provide the opportunity for students to be graduate assistants, their overriding purpose is to help develop the skills, abilities, and professionalism of the student.

All graduate assistants (GTAs and GRAs) must be assigned to at least a half-time appointment (0.25 FTE assignment, approximately equivalent to 10 hours per week). However, the standard assignment for graduate assistants is a full-time appointment (0.5 FTE assignment approximately equivalent to 20 hours per week). Students who desire more than a full-time appointment during fall and spring semesters must complete a Supplemental Assignment Form. The UCF College of Graduate Studies will only grant exceptions to this policy in rare circumstances and for compelling reasons related to the student's professional development. Exceptions are granted only rarely during the first year of a student's program of study. Decisions are based on the student's academic record, the appointment FTE, the relationship of the assignments to the student's program of study, support from the graduate program director, and related factors.

Student FICA exemption

Graduate assistants who are enrolled at least part-time (5 hours in fall, 5 hours in spring, or 3 hours in summer) will be exempt from FICA/Medicare taxes during pay periods that overlap with the academic term and during breaks of less than five weeks. Breaks longer than five weeks where graduate students are on a graduate assistant appointment but not enrolled will result in withholding FICA/Medicare taxes.

Catalog Year

Catalog Year

Degree requirements, regulations, and policy for the institution and every academic program are provided in the annual UCF Graduate catalog. The catalog year at UCF is the Fall, Spring, and Summer terms each year. The catalog year prescribes academic, internship, clinical, and/or other professional/accreditation requirements students must fulfill in order to earn that degree or certificate. The catalog year is assigned to the student's first term of enrollment in a graduate degree or certificate program. Students will adhere to that catalog year as long as continuous enrollment is maintained within that degree or certificate. Students who have been readmitted to a program are reassigned to the catalog year associated with the first term of enrollment at readmission.

When changes occur to degree or certificate requirements, they will appear in the next catalog year. In discussion with their program and by request to the College of Graduate Studies, students may switch their catalog year to the new degree requirements. When changing the catalog year, students must comply with all degree requirements listed in the newer university catalog. Students are not permitted to revert to an older catalog.

Catalog Year - Graduate Program Handbook

In addition to the requirements listed in the catalog, each graduate program has a handbook, which specifies details about graduate program policies, procedures, and behavioral expectations. All students are expected to comply with all current handbook policies. Violations of program handbook policy can result in probation or dismissal from the graduate program. Handbooks may be updated every year. When the handbook is changed, all current students should be notified by their graduate program to read and comply with the new policies, procedures, and/or expectations.

Continuous Enrollment

Students engaged in thesis or dissertation work must be continuously enrolled every term. Doctoral students who have begun taking dissertation hours and Master's students who have completed their required course work and are completing their thesis requirement are required to be continuously enrolled (including summer) until the thesis or dissertation is completed. For details, see the Master's and Doctoral enrollment policies under Thesis and Dissertation Requirements section. Students with extenuating circumstances that will prevent them from enrolling continuously may submit a Leave of Absence Form. See the Special Leave of Absence section for details.
Continuous Enrollment and Active Student Status

Students must be enrolled for at least one semester of every three consecutive semesters in order to maintain active student status. Students who do not meet this enrollment requirement breach continuous enrollment and will be removed from active student status. These students must reapply for admission. Readmission is not guaranteed.

Students with extenuating circumstances that will compel them to be unenrolled for three consecutive semesters or more may complete a Leave of Absence Form to petition to remain in active student status. This form must be submitted no later than the end of the add/drop period of the third semester of non-enrollment. See the Special Leave of Absence section for details.

1. Because of current U.S. government regulations, international students must be enrolled every fall and spring semester. For students in this category, a Leave of Absence is only available for documented medical reasons.
2. A student who is discontinued for breach of continuous enrollment will lose the option of fulfilling the degree requirements originally listed in his/her official program of study already on file and will instead be subject to the degree requirements listed in the graduate catalog in effect at the time the student is readmitted to the program.

Course Category Definitions

(Please see specific policies under Master’s degree and Doctoral degree program requirements for the proper use of hours that can be applied to degrees.)

In an effort to establish a balance among the essential components of graduate degrees, the 2008-2009 Policy Committee of the Graduate Council categorized the wide variety of graduate courses offered at UCF into the three essential components of graduate education: formal course work, research and independent scholarly work, and disciplinary training. While many courses offer a combination of these elements of graduate education, most can be classified as predominantly addressing one of these components. The following definitions were established to help establish a common vocabulary for this categorization.

- **Courses** - All enrollment hours with an official class number.
- **Core/Required courses** - Courses that cover a certain body of knowledge that is central to a program of study. These courses must be taken to fulfill degree requirements, and may only be substituted by equivalent coursework.
- **Elective courses** - Courses that cover a certain body of knowledge that is important, but optional for a program of study.

**Formal Course Work**

- **Formal courses** - Existing UCF courses that involve standard class instruction of a defined body of disciplinary knowledge. These courses involve interactions between a formal course instructor and the students that make up the class and can be traditional, face-to-face courses, web courses, and media-enhanced courses. Such classes include both core/required courses as well as elective courses, seminar courses and independent study courses (XXX 6908), but are distinguished from the various categories of individualized research and scholarly courses.
- **Independent Study (XXX 6908)** - A course of study created outside of the standard-format formal courses offered by the university. Independent Study must have a formally defined core of knowledge to be learned by the student(s). The core of knowledge to be learned by the student(s) must be specified in written form and approved by the student(s), the instructor, and the program coordinator prior to enrollment in Independent Study.

**Research and Independent Scholarly Work**

- **Directed Research (XXX 6918, XXX 5917)** - Graduate-level research/scholarly work. Research hours are taken at the graduate level. These can include laboratory rotations in addition to standard research and scholarly endeavors directed toward completion of a project.
- **Doctoral Research (XXX 7919)** - Doctoral-level research/scholarly work. Research hours at the doctoral level taken prior to passing candidacy. These can include laboratory rotations, preparation for candidacy exams, or standard research and scholarly endeavors directed toward completion of a project or a dissertation.
- **Doctoral Dissertation (XXX 7980)** - Research or scholarly hours taken after advancement to candidacy and directed toward completion of a dissertation.
- **Thesis (XXX 6971, XXX 6973)** - Research hours directed toward completion of a thesis.
- **Research Report (XXX 6909)**

Satisfactory (S) or unsatisfactory (U) grades are used to reflect student progress in these research and scholarly work courses. Other grades may not be assigned in these courses. Should a student in a given term be given an incomplete (I), then this grade should be changed to an S or U upon completion of the work. Students who do not maintain satisfactory progress in their research, as determined by their thesis or dissertation advisory committee, may be placed on probation or dismissed should unsatisfactory progress continue.

**Disciplinary Training**

- **Internships (XXX 6946)** - Courses that provide training experiences for students in their discipline. It is not a formal course, but maybe a required element of some programs.
- **Practica and Clinical Practice (XXX 5944 or XXX 6946)**

Graduate programs must select the grading scale for these disciplinary training courses to be either on an "A-F" or Satisfactory (S)/Unsatisfactory (U) scale, but not both in any one section.
Course Requirements

Course Levels of Graduate Work 7000-Level Courses

Courses for doctoral students. Master's and nondegree students may enroll in 7000-level courses with permission from the program.

6000-Level Courses

Courses for graduate students. Nondegree students should check with the colleges about their ability to enroll in 6000-level courses. Students in accelerated undergraduate/graduate programs should check with their academic adviser before registering for 6000-level courses. Undergraduate registration in 6000-level courses is allowed only in special situations with prior approval by the college. Undergraduate students must be within nine hours of graduation, have a minimum 3.0 GPA, and not register for more than a total of twelve hours in that term. See also the catalog section on Senior Scholars.

5000-Level Courses

Courses for graduate students. Nondegree students and seniors may enroll in 5000-level courses with permission from the program.

Zero Credit Courses

Zero credit hour courses, by definition, have no impact on the overall program hours and should not be used to add fundamental discipline content. A zero credit hour course must not exceed the expected time commitment associated with one credit hour, that is, the amount of work that reasonably approximates not less than one hour of classroom or direct faculty instruction and a minimum of two hours out of class student work each week for approximately fifteen weeks for one semester and/or the equivalent amount of work over a different amount of time (SACSCOC Credit Hours Policy Statement). A zero credit hour course can include laboratory work, internships, practica, studio work, and other academic work.

Split-Level Classes

Although generally discouraged, UCF allows departments to offer split-level undergraduate and/or graduate classes. In such cases, two courses approved for different levels of instruction (e.g., a 4000- and 5000-level course) are offered together in the same room, at the same time, and with the same instructor, but under two different course numbers. In limited cases, classes taught in split-level format may comprise undergraduate and graduate level courses. In general, split-level classes are restricted to situations where the enrollment in one of the courses would be insufficient to allow the course to be offered on a stand-alone basis. When such split-level classes are scheduled, the following conditions must be maintained:

- Both the graduate and the undergraduate courses must have been approved previously through the established university process for approving courses so that there are two separate and complete syllabi for each course, and the syllabi clearly demonstrate more advanced subject matter and expectations for the graduate course than the undergraduate course. The graduate course documents submitted for approval must indicate that the course will be offered in a split-level format.
- Graduate split-level classes must only be assigned to faculty members who meet the university-wide minimum qualifications for teaching graduate-level courses.
- Courses may not be combined into a split-level class if the course numbers of the two courses are more than one level apart. For example, 4000- and 5000-level courses may be combined into a split-level class; 4000-level courses may not be combined with 6000-level courses.
- Students may not take both the undergraduate and graduate levels of a split-level course for credit, except in the case of performance and seminar classes, which can be taken for credit multiple times. Graduate students must take the graduate level of a split-level course for it to count toward fulfilling graduate program requirements.
- The graduate and undergraduate courses must have distinct requirements and performance expectations. Graduate students must have course requirements or assignments that require more in-depth analysis and understanding of the topics, provide broader coverage of the content area, demonstrate higher knowledge and skills, and/or show greater independence of thought and application of concepts than what is typically required of undergraduate students. The level and amount of learning by graduate students must be equivalent to what is typically expected in 5000-level or higher courses. The different requirements and expectations must be spelled out clearly in the course syllabi for the respective courses.
- Documentation of split-level class offerings must be maintained in the dean's office of the academic college, in expectation of future audits. Copies of both syllabi must be provided to the Undergraduate and Graduate Deans for all classes offered in a split-level format.

Language Requirements

Foreign language requirements shall be at the option of the individual departments or appropriate units consistent with their college regulations.

Credit by Examination or Waiver

Students who believe they have mastered the content of a graduate-level course should present a portfolio to the graduate program director documenting the learning experience. If the committee, after examining the portfolio, believes the student has mastered the content presented in a graduate-level course, the student should be allowed to demonstrate that mastery through examination. Examination credit may be used to satisfy program course requirements, but not credit hour requirements.

Correspondence Courses

Correspondence courses are not acceptable toward a graduate program of study; however, credit-bearing extension or continuing education courses may be accepted. The acceptance of courses from unaccredited agencies or institutions threatens the integrity and
value of the graduate degrees awarded by UCF. Graduate-level coursework demands the mastery of skills, theories, and concepts at a much higher level than undergraduate-level coursework. Therefore, the university will not allow students to transfer coursework from professional societies, independent agencies, employees, or companies unless they are ACE (American Council on Education) certified.

**Degree or Certificate Completion**

**Application and Certification for Graduate Degrees**

Students planning to graduate in the next term must complete the Application for Graduation (Intent to Graduate available at my.ucf.edu). Students who have not applied for graduation by the last day of classes in the term preceding the graduation semester may not be listed in the Commencement Program. If the student does not graduate in that term, a new application for graduation must be filed at the beginning of registration for the term of anticipated graduation. Graduating students must be enrolled at UCF during the term of graduation. Graduates may contact the Registrar’s Office for Commencement ceremony and guest ticket information.

Assuming that the student is in good standing at the university, degrees will be awarded only after successful completion of the degree requirements stated in the Graduate Catalog under which the student plans to graduate and final recommendation from the faculty and dean of the respective college.

The college of the degree program must certify through the college dean that all program and college requirements have been met. Degree certification forms (Degree Audit forms or program of study with approval signatures) are forwarded to the UCF College of Graduate Studies for a final determination that all program, college, and university requirements have been met.

**Application and Certification for Graduate Certificates**

In order to be processed for completion of a graduate certificate program, students must file an application for completion Graduate Certificate Completion form with the office that offers the certificate program. The Graduate Certificate Completion form should be filed by the time that the student is registering for the final course in the certificate program, and such forms must be filed no later than the end of the semester in which the student enrolls in the last course required for the certificate program. Forms can be found on the UCF Graduate website (www.graduate.ucf.edu).

The college of the graduate certificate program must certify through the college dean that all program and college requirements have been met. Completed Graduate Certificate Completion forms (available at www.graduate.ucf.edu) are forwarded to the UCF College of Graduate Studies for final determination of program, college, and university requirements. For each certificate program, the graduate program director will certify successful completion of the program’s academic requirements. The certificate is mailed to the student unless the student or the graduate program requests other arrangements. Certificate recipients are not recognized at commencement.

**Thesis and Dissertation Requirements**

An oral defense of an original thesis or dissertation is required with the approved thesis or dissertation being prepared in accordance with program, college, and university requirements.

The College of Graduate Studies Thesis and Dissertation Manual describes UCF’s formatting requirements for theses/dissertations and outlines the steps graduate students must follow to submit their thesis or dissertation electronically. Graduate students can obtain the manual and formatting instructions from Thesis and Dissertation (ETD) on the Graduate website. Additionally, the Thesis/Dissertation Office offers workshops to inform graduate students about procedures, deadlines, and requirements associated with preparing a thesis and dissertation.

Academic dishonesty in a thesis, research report and dissertation work may result in reversion to postbaccalaureate status or termination from the degree program. Our emphasis on academic honesty requires quotations or ideas of others to be accompanied by appropriate citations.

All theses and dissertations that use research involving human subjects, including surveys, must obtain approval from an independent board, the Institutional Review Board (IRB), for this prior to starting the research. It is imperative that proper procedures are followed when using human subjects in research projects. Information about this process can be obtained from the Office of Research (www.research.ucf.edu). Failure to obtain this prior approval could jeopardize receipt of the students degree.

Students who wish to complete their degree requirements in a given semester must take their oral defense and submit the final electronic copy of their thesis or dissertation by the dates shown in the Academic Calendar. All students are required to submit their thesis or dissertation electronically.

**Dual Degree Shared Credit Policy**

The following policies apply to course credits that are counted toward fulfilling the requirements in two-degree programs (dual degree shared credit). These policies do not extend to certificate programs. Policies governing credits shared between two certificate programs or between degree programs and certificate programs can be found under either the Graduate Certificate Program Policies or the Transfer of Credit Policy.

The following policies serve to supplement and extend the shared credit policies that can be found int eh Transfer of Credit section.

**General Limit to Use of Credits for More Than One Degree**
No credit hours may be counted for more than two degree programs.

**Accelerated Bachelor's/Master's Programs**

- Accelerated Bachelor's/Master's programs have a limit of 9 SCH shared credit for graduate degrees requiring up to 36 credit hours. For graduate degrees requiring more than 36 credit hours, accelerated Bachelor's/Master's programs have a limit of 12 SCH shared credit. Proposals for accelerated Bachelor's/Master's programs must include a strong curricular rationale that can support the streamlining of credit requirements in the two degrees.
- Shared credit is limited to formal course work, exclusive of independent study. Grades below a B- are not acceptable to fulfill Master's degree requirements if taken while in undergraduate status.
- Only outstanding students may enter accelerated Bachelor's/Master's programs (explicit requirements may be specified by the graduate program). All students in these programs must have met the undergraduate general education requirements.
- Students must apply and be formally admitted to the master's program following receipt of the bachelor's degree.
- Accelerated Bachelor's/Master's programs must be approved by the Graduate Council Curriculum Committee. Such programs must not unduly delay the completion of the bachelor’s degree nor limit the breadth of the student's undergraduate experience.

**Dual Degree Programs Definition**

Dual degree programs lead to two different degree citations on the transcript and two separate diplomas. These may combine master’s programs, doctoral programs, and professional degree programs. The purpose of a dual degree program is to allow students to undertake complementary programs of graduate study simultaneously through streamlined curricular arrangements that allow dual credit for a specified set of courses.

**Approval**

Proposals for all dual degree programs must include a strong curricular rationale that can support the streamlining of credit requirements in the two degrees. Internal, multi-institutional dual degree programs (prescribed curriculum designed for multiple students), and cotutelles (multi-institutional research and educational opportunities designed for single students) must be approved by the Graduate Council Program Review and Awards Committee.

**Shared Credit Limit**

A minimum of 50% of required credit hours must be unique to each degree and cannot be used for dual credit. Departments and programs may impose more stringent shared credit limits, but may not exceed the university limit.

**Student Admission**

Students may be admitted directly to a dual degree program. Upon admission, the College of Graduate Studies will place an indicator on the student’s record to activate the second program of the dual degree option prior to the completion of 18 SCH in the first program. No admissions requirements established by the College of Graduate Studies or by either individual program may be waived. For example, if one dual degree program requires acceptable scores for the GRE and the other does not require it, the applicant must take the standardized exam to be considered for admission to both degrees. International students must contact UCF Global prior to applying to a dual degree program. Students that apply to the regular program without the dual degree option and later become interested in the dual degree option must contact the dual degree program director prior to completing 18 SCH in the regular program.

**Academic Requirements**

Formal proposals for dual degree programs must include:

1. a clear rationale for specifying whether a joint or distinct documents can satisfy the thesis/dissertation or capstone requirements for each of the component programs;
2. a clear rationale for specifying whether joint or distinct examinations can satisfy the requirements for each of the component programs; and
3. specifications concerning the composition of the advisory committee, with representation from both programs.

All students must have two co-advisors, with one from each program.

Should a student fail to make satisfactory academic progress and be placed on probation, the student should consult with both advisors about the future course of action. Please refer to the section on Academic Progress and Performance for options for students who are dismissed as a result of unsatisfactory academic performance. Please note that students dismissed from a dual degree program may only pursue retention and readmission options with one of the degree programs and may not be retained in or readmitted into the dual degree program.

**Student Financial Support**

Formal proposals for dual degree programs must include a clear structure for the financial arrangements for supported students.

**Other Policies**

- All standard policies apply.
- The graduate status GPA minimum must be met for both programs.
- Students enrolled in dual degree programs must have both degrees conferred simultaneously. No dual degrees will be awarded retroactively.
- Dual degree proposals must include statements concerning the handling of grievances, intellectual property issues, and the assigning of teaching "credit" and fees.
Students must be enrolled in order to take exams, to conduct research or to use any university resources and to graduate. Students who have completed all degree requirements may enroll in IDS 6999 during their semester of graduation.

Enrollment in Multiple Graduate Programs

- Students are allowed to enroll in multiple master’s and doctoral degree programs.
- Approval of the program(s) where the student is currently enrolled is not required for application to or enrollment in additional program(s).
- The College of Graduate Studies shall inform the program(s) of current enrollment when a student is accepted for enrollment in a new program.
- Students will be held responsible for showing academic progress in each program in which they are enrolled.

Full-time Enrollment Requirements

A full-time degree-seeking graduate student must take at least 9 credit hours in the fall and spring semesters. A half-time load is defined as enrolled in at least 4.5 credit hours in fall and spring terms. During the summer term, full-time is 6 credit hours and half-time is 3 credit hours. There are two exceptions to this policy:

1. For master’s students pursuing a thesis option, full-time enrollment is defined as 3 hours per semester [including summers, of only thesis hours (XXX 6971)], after completion of all coursework and until successful completion and defense of the thesis. Students enrolled in thesis hours simultaneously with coursework hours must be enrolled in a combined nine credit hours to be considered full time for the fall and spring semesters, or six credit hours to be enrolled full time in the summer semester.

2. For doctoral students who have passed the candidacy exam and are registered for doctoral dissertation (XXX 7980) hours only, full-time is 3 hours per semester, including summers, until successful completion and defense of the dissertation.

Special Considerations

One exception to this policy is for students pursuing the Clinical Psychology PhD program that requires a 12-month, full-time pre-doctoral internship (CLP 6949) in which registration for one hour per semester (for a total of three semesters) is also defined as full-time.

All international students on F or J visas must maintain full-time, degree-seeking status regardless of financial support received from the university. F and J visa holders should contact the UCF Global to ensure that their enrollment conforms to the full-time definition for their visa status. International students should not change their course schedule or drop classes without advisement from the UCF Global. All international students who enroll in less than 9 hours per term must submit to UCF Global a Reduced Course Load Form that explains the nature of the reduced hours and must obtain approval from UCF Global (see https://global.ucf.edu/ for Reduced Course Load Form). This requirement also applies to international students who are enrolled in less than 9 hours per term in thesis or dissertation hours.

Students who receive financial support from outside UCF and who have loan obligations are responsible for enrolling in the number of credit hours that meet the full-time or half-time criteria specified by the funding source. Enrollment certification is provided by the Registrar's Office based upon the UCF definition of full-time graduate status.

Students who do not satisfy these full-time enrollment requirements may have to start repaying student loans and will not qualify for graduate assistantships, fellowships or tuition support. Students receiving financial aid should refer to the Program Eligibility Charts on the Office of Student Financial Assistance website under "Receiving Aid" to determine their specific enrollment requirements.

Students receiving veteran’s benefits should contact Veteran’s Affairs for additional information about course loads.

Nondegree seeking students must be enrolled in 12 credit hours or more to be considered in full-time status.

Grade System

The university uses an alphabetic system to identify student grades and other actions regarding student progress or class attendance. This system, with a grade point equivalent per semester hour, is as follows:
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<tr>
<th>Grades</th>
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<tr>
<td>Grade Points Per Semester Hour of Credit</td>
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<tr>
<td>A</td>
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<tr>
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<tr>
<td>B+</td>
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<td>D-</td>
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<tr>
<td>F</td>
</tr>
<tr>
<td>NC</td>
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</tbody>
</table>

* Available only in CHM 1032, CHM 2045C, CHS 1440, ENC 1101, ENC 1102, MAC 1105H, MAC 1105, MAC 1114, MAC 1140, MAC 2147, MAC 2233, MAC 2241, MAC 2253, MAC 2281, MAC 2281H, MAC 2311, MAC 2311H, and STA 2014C. In these classes, NC replaces the use of D+, D, and D-.

**Other Actions**

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<td>WM</td>
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<tr>
<td>WP</td>
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<tr>
<td>X</td>
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</tbody>
</table>

* "R* and "T* actions only apply to undergraduates.

The designation of "N" will be temporarily assigned by the Registrar’s Office only in the case when a grade has not been submitted by the faculty by the grades due deadline. The designator will be replaced by the earned letter grade at the earliest opportunity in the semester that immediately follows. The "N" designator may not be assigned by faculty.

Grade changes other than medical withdrawals will be considered only during the semester immediately following the one in which the grade was assigned, except that grades assigned during the spring semester may be changed during either the following summer term or fall semester. A change in grade must be approved by the dean of the college or school. If an academic action such as dismissal or probation has been taken by the university before a grade change, the action will remain in effect regardless of the grade change. A grade will not be changed after a degree has been conferred.

**Late Withdrawal**

Withdrawals are not permitted after the deadline except in extraordinary circumstances such as being the primary caretaker of an immediate family member who becomes seriously ill or injured after the withdrawal deadline. Late withdrawal must be requested during the semester in which the withdrawal is sought and as soon as the extraordinary circumstance arises. Documentation is required, showing that the extraordinary circumstance occurred after the withdrawal deadline. Unsatisfactory academic performance is not an acceptable reason for withdrawal after the deadline. Graduate students seeking to petition for a late withdrawal should consult the College of Graduate Studies (MH 230 or 407-823-2766). Late withdrawals are typically for all courses taken in the semester. Students who request a late withdrawal from selective classes must provide a compelling reason and documentation (eg. my son's radiation treatment was at 9:00 am everyday, so I only had to stop attending my 9:00 am class).

**Limited Nondegree Students Enrolling in Graduate Classes**

All students who wish to enroll as limited nondegree students at the graduate level will be accepted as nondegree-seeking students at the graduate level. Students wishing to enroll should complete the online graduate application, pay the application fee, provide
transcripts from previous institutions, and complete residency forms.

The UCF College of Graduate Studies will make available the nondegree graduate application form to those faculty who are meeting classes for the first time at an off-campus site or regional campus; those faculty should collect the appropriate information and forms. These materials should be returned directly to the UCF College of Graduate Studies, where they will be processed and students will be registered.

Students will be placed on hold for the following semester's registration, awaiting the transcript from a previous institution that verifies the bachelor's degree.

Ownership of Intellectual Property

The "Patent and Invention Policy" for graduate students is included here in its entirety. Departments and colleges should discuss this policy with graduate students at orientations.

PREMISE: UCF has three fundamental responsibilities with regard to graduate student research. They are to: (1) support an academic environment that stimulates the spirit of inquiry, (2) develop the intellectual property stemming from research, and (3) disseminate the intellectual property to the general public. In most cases, UCF owns the intellectual property developed using university resources. The graduate student as the inventor will according to this policy share in the proceeds of the invention.

1. **University Authority and Responsibilities:** Florida Statute Section 1004.23 authorizes the University to take any action necessary to secure letters of patents, copyrights, and trademarks on any work products and to enforce its rights therein. This policy applies to graduate students who are considered University personnel.

2. **Definitions:** For the purposes of this policy the following definitions shall apply:
   a. **Work** includes any copyrightable material (other than journal articles) such as printed material, computer software or databases, audio or visual materials, circuit diagrams, mask works, architectural and engineering drawings, lectures, musical or dramatic compositions, choreographic works, pictorial or graphic works, and sculptural works.
   b. **Invention** includes any discovery, invention, process, the composition of matter, article of manufacture, know-how, design, model, technological development, strain, variety, culture of any organism, or a portion, modification, translation, or improvement of these items, and any mark used in connection with these items.
   c. **Instructional Technology Material** includes motion pictures, film strips, photographic and other similar visual materials, live video and audio transmissions, computer programs, computer-assisted instructional coursework, programmed exhibits, and combinations of the above materials, which were prepared or produced in whole or part by a graduate student, and which are used to assist or enhance instruction.
   d. **University Support** includes the use of University funds, personnel, facilities, equipment, materials, or technological information, and includes such support provided by other public or private organizations when it is arranged, administered, and/or controlled by the University.
   e. **Student-generated Effort** means that the ideas come from the graduate student alone outside the field or discipline for which the graduate student is employed by the University, the work was not made with the use of University support, and the University is not held responsible for any opinions expressed in the effort.
   f. **Research** means the inquiry or examination in some field of knowledge undertaken to establish facts or principles that are true. Research, as used in this policy, does not include work done in an internship or coop setting where new knowledge in a field is not actively sought, but rather a setting that offers a real-life experience for the graduate student.

3. **Work(s)**
   a. **Student-generated Effort** - A work made solely by the graduate student, outside the field or discipline for which the graduate student is employed by the University, is the property of the graduate student, who has the right to determine the disposition of such work and the revenue derived from such work.
   b. **University-supported Efforts** - If the work was not made solely in the course of student-generated efforts, the work is the property of the University, and the graduate student shall share in the proceeds therefrom.
   c. **Disclosure**
      i. Upon creation of a work that is potentially patentable, and prior to any publication, the graduate student shall disclose to the Office of Research any work made in the course of University-supported efforts, together with an outline of the project and the conditions under which it was done.
      ii. The Office of Research shall gather information to assess the relative equities of the graduate student and the university in the work.
      iii. Within 120 days after such disclosure, the Office of Research will inform the graduate student whether the university seeks an interest in the work.
      iv. The graduate student and the university shall not commit any act which would tend to defeat the university's or graduate student's interest in the work and shall take any necessary steps to protect such interests.

4. **Invention(s)**
   a. **Student-generated Efforts** - All inventions made outside the field or discipline in which the graduate student is employed by the university and for which no university support has been used are the property of the graduate student.
   b. **University-supported Efforts** - An invention made in the field or discipline in which the graduate student is employed by the university, or receiving university support, is the property of the university and the graduate student shall share in the proceeds therefrom.
   c. **Disclosure**
      i. A graduate student as inventor or co-inventor shall fully and completely disclose to the Office of Research and Commercialization all inventions which the inventor(s) may develop or discover while a graduate student of the University, together with an outline of the conditions under which it was done. With respect to inventions made during the course of approved outside employment, the graduate student as inventor or co-inventor may delay their disclosure.
Program of Study

A Program of Study is a listing of coursework agreed to by the student and the degree program specifying course degree requirements. A specific Program of Study, which may vary from student to student, must be formulated jointly by the student and the appropriate committee or adviser in the program area and approved by the college. A Program of Study form can be obtained from the graduate program director. This form should be prepared and signed by the adviser and student, then given to the graduate program director for review and filing in the student's permanent file. It must comply with the student's relevant catalog.

Programs of Study for students seeking a master's or specialist degree should be on file with the College of Graduate Studies by the end of the student's second major term (based on full-time enrollment) and must be on file by the end of the term prior to the term of expected graduation. Programs of Study for students seeking a doctoral degree should be on file with the College of Graduate Studies by the end of the third major term of enrollment (based on full-time enrollment) and must be on file prior to the term of candidacy status.

All graduate programs of study must include independent learning as part of course and other assignments. This may be accomplished by research papers and reports, evidence of reflective learning in individual portfolios, creation of original works, and/or demonstration of integration of knowledge as part of coursework in a capstone course and other requirements for the degree.

The student and their advisory committee may make changes in the program of study at any time with the approval of the graduate program director. However, once established, the program of study cannot be altered solely due to the poor academic performance of the student.

Proprietary and Confidential Information

It is the intent of the University to foster the professional development of its faculty and students. In particular, the proprietary and patent policies serve to protect the interests of UCF graduate students so that they can engage in research that will ultimately be published. In no circumstances should the University knowingly enter into an agreement with outside agencies that would prevent the ultimate publication of the student's work, like a thesis or dissertation or other means. These policies also help to clarify protections for intellectual property contained in theses/dissertations for students who engage in employment outside the University.

If thesis or dissertation work is supported by a contractual agreement with an outside agency, and provision was made in the agreement to delay disclosure of the study's results for the purpose of filing a patent or copyright, then this section describes procedures for handling the thesis/dissertation.

1. Only for those theses and dissertations where a prior written agreement was made between UCF and an outside agency or where the University wishes to pursue a copyright/patent may publication of the thesis/dissertation be delayed, or in exceptional circumstances as determined by the University on a case by case basis. Review and delay of disclosure of the
thesis/dissertation may take up to 6 months.
2. The review by the outside agency or by the University for the purpose of copyright or patent will follow the oral defense of the document. If it appears that the review process will delay certification of the degree or if the delay of disclosure is exercised, the certification process will be completed but the thesis or dissertation will not be released for up to 6 months.
3. No graduate degree will be awarded when the thesis or dissertation, after a reasonable interval, is not available to the public. If the material is sensitive, classified, or will be patented, the thesis or dissertation will not be released for up to 6 months.
4. Contractual agreements that contain provisions for review and delay of disclosure shall be reviewed by the Office of Research. Exceptional cases may include a delay of disclosure for more than six months and/or review prior to the oral defense.
5. The student and the student’s Adviser shall be informed of the possibility of the delay of disclosure at the time of the appointment of the Adviser.

Readmission

To file for readmission, students must complete a new application, submit the application fee, and update their residency information and health history (if applicable). Students should apply for readmission if they were previously admitted and enrolled in a graduate program but have been absent for three consecutive semesters.

Special Leave of Absence

Students who anticipate that they may not be able to enroll continuously due to external circumstances should apply for a Special Leave of Absence. Specifically, students who are taking courses should apply for a Special Leave of Absence when they cannot enroll in more than two consecutive semesters. Students who are in thesis/dissertation hours should apply for a Special Leave of Absence when they cannot enroll in every semester (including summer).

To qualify for a Special Leave of Absence, the student must demonstrate good cause (e.g., illness, family issues, financial difficulties, personal circumstances, recent maternity/paternity, employment issues). The specific reason for the Leave of Absence request must be indicated by the student on the Leave of Absence Form. Due to current U.S. government regulations, international students must be enrolled every fall and spring semester. For students in this category, a Special Leave of Absence is only available for documented medical reasons.

A Special Leave of Absence will be granted only after approval from the Graduate Program Director for the student's program of study and the College of Graduate Studies (and UCF Global for international students, when applicable).

For students taking classes, the Special Leave of Absence Form must be submitted no later than the end of the add/drop period of the third semester of non-enrollment. For thesis/dissertation students, the Special Leave of Absence Form must be submitted no later than the end of the add/drop period of the term of non-enrollment.

When applying for a Special Leave of Absence, students may request up to 6 consecutive semesters of non-enrollment. Time spent in a Special Leave of Absence (granted Summer 2018 or later) can add a maximum of 3 terms (1 academic year) to the total time limitation for the degree (see the policy regarding Time Limitation for Degree Completion in the master's, specialist, and doctoral policies).

Specifically:

<table>
<thead>
<tr>
<th>Special Leave of Absence Structure</th>
<th>1 term added to time to degree completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 term of SLoA</td>
<td>1 term added to time to degree completion</td>
</tr>
<tr>
<td>2 terms of SLoA</td>
<td>2 terms added to time to degree completion</td>
</tr>
<tr>
<td>3+ terms of SLoA</td>
<td>3 terms added to time to degree completion</td>
</tr>
</tbody>
</table>

Special Leave of Absences approved prior to summer 2018 will fall under the old version of the policy. Students who fall under the old version of the policy can petition the 7-year Policy if extreme circumstances of Special Leave of Absence cause a delay beyond 7 years to completion.

If a student fails to enroll in the semester following the last term in the approved Special Leave of Absence, the student will have failed to maintain continuous enrollment and must apply for readmission to the university.

Student Admissions Classifications

Students may be admitted into graduate status in the categories defined below. Classifications within a graduate status may be viewed in the Admissions section of the catalog.

Degree-seeking Students

A degree-seeking student is a student who has been formally admitted into a master's, specialist, or doctoral program.

Graduate Certificate Students
Students who have applied to and been accepted into a graduate certificate program are classified as graduate certificate students. Graduate certificate students who subsequently apply to and are accepted into a graduate degree program may, at the discretion of the program adviser, transfer the credit hours from one earned graduate certificate program into a graduate degree program.

Nondegree Students

Students are classified in nondegree status if they have not applied to and been accepted into a graduate degree or certificate program. Some students in this status are completing application requirements for a graduate program. Courses taken prior to acceptance to a degree program may be used to fulfill degree program requirements as transfer credits only with the approval of the program director. There are strict transfer credit limits - please see the transfer credit policy and consult with the specific program director.

Student Responsibility for University Communication

UCF uses email as the official means of notifying students of important university business and academic information concerning registration, deadlines, financial assistance, scholarships, student accounts (including tuition and fees), academic progress and problems, and many other critical items for satisfactory completion of a UCF degree program. The university sends all business-related and academic messages to a student’s Knights Email address to ensure that there is one repository for that information. Every student must register for, and maintain a Knights Email account at https://extranet.cst.ucf.edu/kmailselfsvc and check it regularly to avoid missing important and critical information from the university. Any difficulty with establishing an account or with accessing an established account must be resolved through the UCF Computer Services Service Desk so that a student receives all important messages.

Additionally, each student must have an up-to-date emergency e-mail address and cell phone number by which to be reached in case of a crisis on campus. This emergency contact information will be used only for emergency purposes. Also, both permanent and local mailing addresses must be on the record, so that any physical documents that must be mailed can be delivered.

It is critical that students maintain and regularly check their Knights Email account for official announcements and notifications. Communications sent to the Knights Email address on record will be deemed adequate notice for all university communication, including issues related to academics, finances, registration, parking, and all other matters. The University does not accept responsibility if official communication fails to reach a student who has not registered for, or maintained and checked on a regular basis, their Knights Email account. Please ensure that this information is current and that any changes in contact information are made online through the myUCF portal at https://my.ucf.edu/.

Student Responsibility to Keep Informed

It is the student’s responsibility to keep informed of all rules, regulations, and procedures required for graduate studies. Graduate program regulations will not be waived or exceptions granted because students plead ignorance of the regulations or claim failure of the adviser to keep them informed.

Transfer of Credit

Types of Transfer Credit

Graduate coursework completed prior to enrolling in a graduate program at UCF may be eligible for transfer or waiver into the graduate program. Graduate students are expected to make transfer requests (and include course syllabi) with their graduate program director during the first semester of enrollment in the graduate program. For transfer credits, program faculty will determine the equivalency of the courses requested by reviewing the syllabi. Only courses and earned master's degree credits approved by the graduate program will be moved into a program of study.

Below is the university transfer policy for the 3 types of transfer credits. Graduate programs may stipulate additional constraints beyond those included in the university transfer policy.

1. External transfer credits: course credits completed at a regionally accredited institution (excluding UCF) or recognized international institution.

External transfer credits are eligible for transfer only if they meet the following criteria:

- Only graduate-level courses may be accepted as transfer credits.
- Only courses with a grade of “B-” or higher are allowed to be transferred into a program of study (not petitionable).
- Only hours that are no more than seven years old at the time of transfer may be transferred, unless part of an earned graduate degree.
- Only formal course work hours, but not thesis or research hours, may be used as transfer credits (not petitionable).

External transfer credits are limited to up to 9 credit hours for students who do not have a completed graduate degree or for students in doctoral programs that require a master's degree for admission.

2. Internal transfer credits: graduate-level course credits completed at UCF prior to enrolling in the program for which the degree is
sought, including those taken in undergraduate status at UCF as part of a Senior Scholar or accelerated program; or as a Traveling Scholar (see Traveling Scholars in the General Graduate Policies for more information).

Internal credits are eligible for transfer only if they meet the following criteria:

- Only graduate-level or higher courses may be accepted as transfer credits.
- Only courses with a grade of "B-" or higher are allowed to be transferred into a program of study (not petitionable).
- Only hours are no more than seven years old at the time of transfer may be transferred, unless part of an earned graduate degree.

(Note: Internal thesis or research hours may be used as transfer credits, but may not be used to satisfy formal course work requirements.)

Graduate degree programs are permitted to accept as internal transfer credits up to nine hours of graduate-level course work taken by a student while in undergraduate status at UCF. More than nine hours may be accepted if part of a formally approved accelerated program.

3. Waived credits: 30 credit hours in a program of study that are waived on the basis of an earned master's degree, not based on individual courses.

For students in doctoral programs that do not require a master’s degree for admission, students with an earned master’s degree may have 30 credit hours waived if the following criteria are met:

- the earned degree is from a regionally accredited institution or recognized foreign institution;
- the master's degree was earned in the same or a closely related area of study.

Transfer Credit Limits

The sum of all transfer and waived credits may not exceed 50% of the total degree requirements of any doctoral degree, with one exception. An exception is possible for graduate students recruited to transfer to UCF when their faculty supervisor is being hired by UCF from another institution. In this case, the student’s transfer is requested by his/her faculty supervisor (rather than initiated by the student), often to minimize disruption to the student’s research and progress to degree. This exception allows the student to transfer up to 66.7% of the total degree requirements of the doctoral degree as long as the student completes at least 9 hours of graded coursework at UCF, earns Doctoral Candidacy at UCF, completes 15 hours of dissertation at UCF, and meets all other university policy requirements for external transfer credits.

All transfer and waived credits to be used toward a doctoral degree should be finalized by the end of the third major (fall/spring) term of program enrollment (based on full-time enrollment), and must be finalized prior to the change to candidacy status.

The thesis or dissertation credit requirements of a program may not be satisfied by waived or transfer credits.

Students may be required to obtain a Josef Silny or WES evaluation to obtain transfer or waived credits from recognized international institutions.

For students who do not have a completed graduate degree, the total number of transfer credits are limited to up to 15 credit hours, or up to all of the hours taken to fulfill an earned UCF graduate certificate.

For students in doctoral programs that require a master’s degree for admission, the total number of transfer credits are limited to up to 15 credit hours, or up to all of the hours taken to fulfill an earned UCF graduate certificate. Credits from the required, earned master's degree may not be used to satisfy doctoral program requirements.

For students in doctoral programs that do not require a master’s degree for admission, students with an earned master’s degree from a regionally accredited institution or recognized foreign institution may:

- waive 30 credit hours of requirements and credits in a program of study; or
- transfer up to 30 credit hours from any earned masters degree in the same or a closely related area of study, provided a course-by-course review is performed.

Students who transfer up to 30 credit hours from any earned master's degree or who have 30 credit hours waived from an earned master's degree may also transfer up to 9 additional graduate credits, provided the sum of all transfer and waived credits does not exceed 50% of the total degree requirements.

Traveling Scholars

The Traveling Scholar status enables a UCF graduate student to take advantage of special resources available on another campus that are not available at UCF (for example, special course offerings, research opportunities, unique laboratories, and library collections). Provided the appropriate approval described below is obtained, Traveling Scholar credits are guaranteed to be accepted as earned UCF credits, as long as the grades obtained are "B-" or higher.

A Traveling Scholar must be recommended by his or her own graduate adviser, who will initiate a visiting arrangement with the appropriate faculty member of the host institution. After agreement by the student’s adviser and the faculty member at the host institution, graduate deans at both institutions will be fully informed by the adviser and have the authority to approve or deny the academic arrangement. A student will register at the host institution and will pay tuition and/or registration fees according to fee schedules established at that institution. The Traveling Scholar Form must be completed by the student and approved by the UCF College of Graduate Studies before any coursework can be taken.

2021-2022 Graduate Catalog
Each university retains its full right to accept or reject any student who wishes to study under its auspices. A Traveling Scholar will normally be limited to one term for a total of six credit hours taken as a traveling scholar at another institution.

A Traveling Scholar is not entitled to displacement allowance, mileage, or per diem payments. The home university, however, may at its option continue its financial support of the traveling scholar in the form of a fellowship or graduate assistantship with any work obligation to be discharged either at the home or at the host institution.

To obtain credit for approved Traveling Scholar courses, the student must request an official transcript be sent from the host institution to the UCF College of Graduate Studies [Millican Hall 230, P.O. Box 160112, Orlando, FL 32816-0112; Phone (407) 823-2766], and the graduate program director must complete the Transfer Request Form so that the credits can be entered into the student database. Credits earned at another institution while in Traveling Scholar status will be considered internal transfer credits and do not count toward the student's graduate status GPA. These hours may count toward UCF residency requirements if prior approval is obtained. Graduate students are not allowed to be traveling scholars in their final, or graduation, term except by prior approval of the UCF College of Graduate Studies.

An international graduate student who is registered at another educational institution besides UCF as a Traveling Scholar or as a transient student is required to complete a Reduced Course Load Form to satisfy SEVIS requirements of being enrolled full-time. International graduate assistants employed at UCF must be enrolled full-time at UCF.

**University Admission Standards**

The university seeks to enroll students of the highest quality. In addition, the university encourages applications from a diverse population and values diversity in our graduate programs. Admissions recommendations are made by the academic programs on the basis of a wide variety of information submitted as part of the students application package. Admissions committees consider factors such as students academic qualifications, research and work experiences, professional goals and skills, match with program objectives and professional qualifications, the number of openings available in the program, and the resources available to support the student. An applicants character, integrity, and general fitness to practice a particular profession may also be considered in the admission process. Admission is limited and, in most programs, not all qualified students can be admitted. While UCF supports students obtaining multiple UCF degrees at different levels or in different programs, students who have received a degree in a UCF graduate program are not eligible for admission to the same program, even if it has tracks that have substantively different curricula.

In general, graduate admission to the university requires that students must have obtained (prior to the start of the term for which the student is admitted) the equivalent of a baccalaureate degree from an accredited institution recognized by UCF or from a recognized foreign institution. Students without the equivalent of a baccalaureate degree from an accredited institution recognized by UCF or from a recognized foreign institution are not admitted to graduate degree programs, graduate certificate programs, or graduate non-degree status. All applicants for graduate admission must submit official transcripts for all academic work. In addition to the above, all admitted students must submit evidence to document their attainment of the following minimum requirements.

**Minimum UCF Requirement**

1. This regulation applies to all students who seek to be admitted to graduate programs at the University of Central Florida.
2. Each admitted student to a graduate degree program or to a post-baccalaureate professional program must meet the following minimum requirements:
   a. Earned a bachelor's degree or equivalent from a U.S. institution of higher education accredited by one of the following accrediting bodies or its equivalent from a foreign institution:
      i. Accrediting Commission for Community and Junior Colleges (ACCJC)
      ii. New England Commission of Higher Education (NECHE)
      iii. Higher Learning Commission (HLC)
      iv. Middle States Commission on Higher Education (MSCHE)
      v. Northwest Commission on Colleges and Universities (NWCCU)
      vi. Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)
      vii. WASC Senior College and University Commission AND
   b. Earned a 3.0 GPA (or equivalent) or better in all work attempted while registered as an undergraduate student working toward a baccalaureate degree, OR
   c. Earned a 3.0 GPA (or equivalent) or better in all work attempted while registered as a upper division student working toward a baccalaureate degree, OR
   d. Earned a previous graduate degree or professional degree or equivalent from a U.S. institution of higher education accredited by an accrediting body listed in (2)(a) or its equivalent from a foreign institution in a field related to the discipline of the program to which the applicant is applying.
3. Each graduate program may determine other requirements for admission, consistent with the mission and purpose of their college and program beyond those listed in (2). All program admissions requirements must be published in the Graduate Catalog and are required to be reviewed and updated annually.
   a. Graduate programs must include at least 2 of the following materials to support the application:
      i. Letter(s) of reference
      ii. Resume or CV
      iii. Writing Sample
      iv. Personal, Goal, or Professional Statement
      v. Research Statement
      vi. Professional, Academic, Artistic, or Music Portfolio
      vii. Video answer to prompt

2021-2022 Graduate Catalog
3. Doctoral Program Policies

Academic Integrity Training

All students newly admitted to doctoral programs must complete training designed to inculcate an awareness and understanding of the fundamental issues of academic integrity and the responsible conduct of research (RCR) in a manner that is consistent with federal regulations. This required training includes:

1. the online Collaborative Institutional Training Initiative (CITI) "Responsible Conduct of Research" training module in the appropriate disciplinary area; and
2. four face-to-face ethics/RCR workshops coordinated by the College of Graduate Studies and the Office of Research, or an approved alternative training offered as a program requirement for all students in the program.

Students in a program that has approved alternative ethics/RCR training must still complete the online CITI Responsible Conduct of Research training in the appropriate disciplinary area.

The workshops and CITI training modules are open to all UCF graduate students and postdoctoral fellows and associates. For the ethics/RCR workshops, priority is given to doctoral students who are required to complete these workshops prior to advancement to candidacy.

Deadlines:

1. The four face-to-face ethics/RCR training requirements must be completed prior to a student’s advancement to candidacy.
2. The CITI module should be completed by the end of a student’s second major (Fall/Spring) term of enrollment.
3. CITI and RCR training requirements must be completed in a manner that is consistent with federal regulations.

A doctoral student who has not completed the required training in academic integrity and the responsible conduct of research will not be advanced to candidacy.

Workshops:

The College of Graduate Studies and the Office of Research offer a series of workshops to enable students to fulfill the four workshop requirement. Students must take at least two workshops from a set of core workshops that focus on: personal integrity in the classroom, plagiarism, data management (including fabrication, falsification, and confidentiality), authorship and peer review, mentor and trainee responsibilities, collaborative research, and conflicts of interest. Students must complete two additional workshops from among the set of core workshops or a series of additional workshops, which will provide more specialized training such as human subjects, animal welfare, and other areas of ethical concern unique to a discipline or research area.

Programs may develop alternatives for the training workshops that focus on issues of particular relevance to their specific disciplines and fields, or that better accommodate the schedules of their students. Alternative training must be offered as a program requirement for all students in the program. The training content must be specified in the syllabus/syllabi of required formal courses and include the core topics listed above, as well as other topics appropriate to the specific discipline. Alternative training content must be submitted for review and approval by the College of Graduate Studies and the Office of Research prior to student attendance.

Further information concerning workshop sessions and registration and how to complete the CITI training module may be found at Academic Integrity Training.
Candidacy

Admission to Candidacy

A student must demonstrate their readiness for the PhD program by successfully completing the candidacy examination before admission to full doctoral status and enrollment into dissertation hours. The Candidacy Examination should be taken when the student is nearing the end of coursework. The exam is administered by the members of the student’s dissertation advisory committee or another appropriate committee appointed by the program. Admission to candidacy will be approved by the program director and the college coordinator and forwarded to the UCF College of Graduate Studies for status change. Only after admission to candidacy may a student register for doctoral dissertation hours (XXX 7980). Effective beginning Summer 2019, students must have passed candidacy and have the candidacy and dissertation advisory committee documentation received and processed by the College of Graduate Studies by the date listed in the academic calendar in order to enroll in dissertation hours for that term.

Doctoral students admitted to candidacy are expected to enroll in dissertation hours and to devote full-time effort to conducting their dissertation research and writing the required dissertation document. Students in doctoral candidacy must continuously enroll in at least three hours of dissertation coursework (XXX 7980) each semester (including summer) until the dissertation is completed.

Candidacy Examination

The purpose of the Candidacy Examination is for the student to demonstrate a strong foundation of knowledge within the specific discipline, and the ability and preparation to conduct independent scholarly research. The committee may examine a broad range of appropriate capabilities, including theory, bibliography, research methodology, and the evaluation of preliminary research, when appropriate. The examination must have a written component; it also may include an oral defense of a written report or dissertation proposal. All written examination materials will be kept in the student's file in the program.

Conferral of Master’s Degrees for Students in Doctoral Degree Programs

A student making satisfactory progress in a doctoral program may be eligible to be awarded a master’s degree in the same discipline. Policies concerning these degrees can be found under Master’s Program Policies.

To avoid confusion of terminology for examinations, all programs should use the following terms:

Qualifying Examination

Eligibility to continue a doctoral program should be limited to superior students who have demonstrated intellectual ability, high achievement, and adequate preparation for advanced study and research in a chosen field. The decision to allow a student continuing progress toward a doctorate is made by the graduate committee of the program area concerned on the basis of the qualifying examination (optional by programs) and/or other criteria as specified by the individual program area. This exam is normally given within the first year of the doctoral program. This is a written examination and is permanently filed in the student's records in the program. Programs have their own requirements as to how many times this exam can be repeated.

Candidacy Examination

This exam takes place prior to admission to Candidacy Status. This is a written examination and is permanently filed in the student’s permanent records. It is normally taken near the end of completion of coursework and must be passed before being allowed to enroll in doctoral dissertation (XXX 7980) hours. Programs have their own requirements, which are explained in their graduate student handbooks, as to how many times this exam can be repeated.

Dissertation Proposal Examination

After passing the general Candidacy Examination, the student will write and defend a Dissertation Proposal in an oral examination. Programs have their own requirements as to how many times this exam can be repeated. All materials including the approved proposal and other agreements will be kept in the student's file in the program.

Dissertation Defense

This is an oral examination (or defense) of the dissertation.

Examination Committee

In some programs, a doctoral examination committee will be formed consisting of several faculty members representing the appropriate disciplines and approved by the Dean or college designee to administer qualifying and/or candidacy examinations. In many cases, this committee will consist of the program graduate committee. All members will evaluate and vote as to whether students have successfully completed the exams.

Course Requirements

The primary objective of doctoral study is to educate students to a point of excellence in conducting, disseminating, and applying
scholarly research, with the explicit goal of making original, substantive contributions to their degree discipline. The advanced nature of doctoral education requires student participation, debate, evaluation, and discussion of diverse ideas and approaches. Careful analysis, independent research, and greater understanding and application of ideas are also expected.

The doctoral degree program requirements will consist of core and elective courses, seminars, directed and doctoral research, independent study, and dissertation research.

- Each doctoral program of study will include a minimum of 72 semester hours of graduate credit beyond the baccalaureate degree or a minimum of 42 semester hours of graduate credit beyond the master's degree; these graduate credits must be taken as part of an approved graduate program of study. Some programs require considerably more than the minimum of 72 hours because of the nature of the discipline and the standards of the associated profession.
- All graduate credits in a doctoral program must be at 5000 level or higher.
- At least one-half of the credit hours used to meet program requirements must be in 6000-level or 7000-level courses, including the allowed number of research and dissertation hours.
- At least 50% of the credits offered for the degree are expected to be derived from a single field of concentration (that is, from one department). However, programs that are interdisciplinary in nature may be exempt from this policy upon approval from the Graduate Council Curriculum Committee.
- Only graduate-level credit with a grade of "C-" or higher may be used to satisfy degree requirements.
- A university-wide minimum of at least 27 hours of formal coursework exclusive of Independent Study (XXX 6908), dissertation and research is required for all doctoral programs; some programs require a greater number of formal coursework hours.
- A university-wide minimum of at least 15 hours of dissertation credits is required for all doctoral programs, although some programs require a greater number of dissertation hours.
- The dissertation hour requirements may only be satisfied by enrollment in dissertation hours.

Course Levels 6000- and 7000-Level Courses

A minimum of 36 credit hours (including courses taken in a master's program) must be in 6000-level and 7000-level courses, which are designed, respectively, for graduate students and doctoral students only. For students with waived hours from an earned master's, this amount is at least one-half of the program hours remaining after the waived hours are applied.

Dissertation Requirements

Dissertations are required in all PhD programs. For EdP programs, some tracks require a dissertation, while others require a dissertation-in-practice (see the program information for a description of a dissertation-in-practice). The dissertation consists of an original and substantial research study designed, conducted, and reported by the student with the guidance of the Dissertation Committee. The written dissertation must include a common theme with an introduction and literature review, details of the study, and results and conclusions prepared in accordance with program and university requirements. The dissertation is expected to represent a significant contribution to the discipline. Since this work must be original, it is very important that care is taken in properly citing ideas and quotations of others. Failure to do so is academic dishonesty and subject to termination from the program without receiving the degree. An oral defense of the dissertation is required.

Enrollment in Dissertation Hours

The university requires all doctoral students to take a minimum of 15 credit hours of doctoral dissertation hours; however, specific programs may require more than this minimum. Dissertation research is considered to be a full-time effort, and post-candidacy enrollment in at least three doctoral dissertations (XXX 7980) credit hours constitutes full-time graduate status. Doctoral students who have passed candidacy and have begun taking doctoral dissertation hours (XXX 7980) must enroll in at least three dissertation hours each semester (including summers, without skipping a semester) and continue doing so until they complete and successfully defend the dissertation. Students wishing to enroll in fewer than 3 credit hours must have approval from their advisor. Students who need to interrupt their dissertation work for extenuating circumstances must submit a Leave of Absence Form to the College of Graduate Studies. Submission and approval of the form must be obtained prior to the first day of classes for the term of non-enrollment.

Dissertation Advisory Committee Membership

Doctoral students must have a Dissertation Advisory Committee prior to advancement to candidacy status. The Committee will consist of a minimum of four members who are approved members of the Graduate Faculty or Graduate Faculty Scholars (see Graduate Faculty). At least three members must be Graduate Faculty, one of whom must serve as the chair of the committee. One member must be from either outside the student's department at UCF (or college, if a college-wide program) or outside the university. The Graduate Program Committee may specify additional advisory committee membership beyond the minimum of four. These additional advisory committee members must also be approved members of the Graduate Faculty or Graduate Faculty Scholars. Graduate Faculty members must form the majority of any given committee.

Committee membership must be approved by the program director and submitted to the College of Graduate Studies. All members must be in fields related to the dissertation topic. The UCF College of Graduate Studies reserves the right to review appointments to a dissertation advisory committee, place a representative on any dissertation advisory committee, or appoint a co-chair. A student may request a change in membership of the dissertation advisory committee with the approval of the program director and re-submission to the College of Graduate Studies.

All members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the committee.

Responsibilities of Members of Doctoral Advisory Committees
All members of the doctoral advisory committee have responsibilities. See the Graduate Faculty and Graduate Faculty Scholars Policy for this information.

Dissertation Preparation

Thesis and Dissertation (ETD) describes university requirements and formatting instructions for dissertations and outlines the steps graduate students must follow in order to submit their dissertations electronically to the UCF College of Graduate Studies. The Thesis and Dissertation Office offers online and face-to-face workshops to inform graduate students about procedures, deadlines, and requirements associated with preparing a dissertation. Students who have just passed Candidacy are strongly encouraged to visit the online workshop.

Dissertation students will submit their dissertations electronically. Electronic thesis/dissertation (ETD) submissions will be archived by the UCF library in digital format and will be more widely accessible. In addition, students may use video and audio clips as well as other formats that may be appropriate for their field of study.

All dissertations that use research involving human subjects, including surveys, must obtain approval from an independent board, the Institutional Review Board (IRB), for this prior to starting the research. Graduate students and the faculty that supervise them are required to attend training on IRB policies, so this needs to start well in advance of the research start date. It is imperative that proper procedures are followed when using human subjects in research projects. Information about this process can be obtained from the Office of Research (www.research.ucf.edu). Click on Compliance and the IRB Policy and Procedures Manual is available. In addition, should the nature of the research or the faculty supervision change since the IRB approval was obtained, then new IRB approval must be sought. Failure to obtain this prior approval could jeopardize receipt of the student's degree.

Students who wish to complete their degree requirements in a given semester must take their oral defense and submit their dissertation to the UCF College of Graduate Studies by the dates shown in the Academic Calendar.

Dissertation Defense

The dissertation defense is an oral presentation and defense of the written dissertation describing the student's research. The advisory committee will evaluate and judge the dissertation defense. Successful students must demonstrate that they are able to conduct and report original independent research that contributes substantially to the discipline in which they study. The defense is a formal academic requirement and should be accorded respect and dignity, and thus, no refreshments or other distractions should be served during the defense.

Dissertations will be approved by a majority vote of the Dissertation Advisory Committee. Further approval is required from the Dean or Dean designee and the UCF College of Graduate Studies before final acceptance of the dissertation in fulfilling degree requirements.

Graduate programs may elect to offer alternatives to face-to-face dissertation defense. Programs that choose to offer such alternatives must develop and ensure procedures for the implementation of the alternative defense process and procedures must be published in the program's handbook. These procedures should address the form and time for the student's request for an alternative defense and the process for seeking approval.

Review for Original Work

The university requires all students submitting a dissertation as part of their graduate degree requirements to first have their electronic documents submitted through iThenticate for advisement purposes and for review of originality. The dissertation chair is responsible for scheduling this submission to iThenticate and for reviewing the results from iThenticate with the student's advisory committee. The advisory committee uses the results appropriately to assist the student in the preparation of their dissertation.

Before the student may be approved for final submission to the university, the dissertation chair must indicate completion of the Review for Original Work through iThenticate by signing the Dissertation Approval Form.

Dissertation Dissemination

While UCF respects the wishes of students who would like to publish their work and/or apply for patents, it is essential for scholarly research conducted at a university to be available for dissemination. While several options are available for the release of an ETD, it is the goal of the university that all dissertations be available through the UCF Libraries catalog. Students with potential patent concerns are required to discuss the following options with their dissertation adviser and indicate the availability choice on the Thesis and Dissertation Release Option electronic form, which the student submits in the myUCF Student Center.

For those with no patent or copyright concerns:
- Immediate worldwide dissemination with no restrictions.

For those who have patent issues dissemination options must be discussed and agreed to with your adviser. Choices are:
- Pending dissemination of the entire work for six months for patent or other proprietary issues, with an additional six months extension available. Once the patent and proprietary issues are resolved, then immediate worldwide dissemination with no restrictions.
- Pending dissemination of the entire work for six months for patent or other proprietary issues, with an additional six months extension available. Once the patent and proprietary issues are resolved, choosing this option allows the student to make the dissertation available to the university community for the period chosen below, and then for it to be distributed via the Web beyond that time.
  - one year
  - three years*
  - five years*
For those who have copyright concerns, dissemination options are a student decision within the guidelines of individual departments that may have requirements for dissemination. If a department has no guidelines for dissemination, then students are free to choose one of the options below. In general, those in the sciences and engineering will choose one year while students in the arts and humanities may choose longer. Choosing this option allows the student to make the dissertation available to the university community for the period chosen below, and then for it to be distributed via the Web beyond that time.

- one year
- three years*
- five years*

*Does not require dissertation adviser signature and approval.

Public Access

Students, faculty, staff, and other interested parties are strongly encouraged to attend dissertation final defense sessions. Notices providing the date, time, and location of such meetings must be announced at least 2 weeks prior to the defense to all academic departments.

These sessions are educational and informative for graduate students and provide an opportunity for colleagues to observe the work of their peers with students. At the discretion of the Chair of the Committee, questions may be invited from the audience. That part of the session involving committee discussion leading to a vote on the acceptance of the work will be closed. Sessions may be recessed briefly to excuse visitors and the candidate before this stage begins.

Doctoral Admission Requirements

Eligibility for admission to a doctoral program is limited to superior students who have demonstrated intellectual ability, high achievement, and adequate preparation for advanced study and research in a chosen field.

Minimum university standards for admission can be found in the Doctoral Admissions section of the catalog. Meeting minimum university admission standards may not satisfy doctoral program admission requirements. Programs often require additional or higher criteria. See the Graduate Programs section of the catalog for specific program requirements.

Time Limitation and Continuous Enrollment

A student has seven years from the date of admission to the doctoral program to earn a doctoral degree. This is not affected by earning a master's degree along the way.

Extenuating circumstances may arise that hinder a student's progress towards program completion and the ability to maintain continuous enrollment. If such a need arises, the student may petition for a Special Leave of Absence. Leaves are considered for medical (e.g., illness, injury) or non-medical (e.g., family needs, military deployment).

Students should be proactive in maintaining accurate records with the university and petition for a Special Leave of Absence prior to the need. When this is not possible, students should do so promptly after the need arises. Students are required to complete and submit the Leave of Absence form with all relevant supporting documents.

Students may be granted a Special Leave of Absence for up to 6 consecutive academic terms. Course registration during the granted leave is not required. Time spent in a Special Leave of Absence that was granted Summer 2018 or later can add a maximum of 3 terms (1 academic year) to the total time limitation for degree completion:

<table>
<thead>
<tr>
<th>Special Leave of Absence Structure</th>
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<tbody>
<tr>
<td>1 term of SLoA</td>
<td>1 term added to the time to degree completion</td>
</tr>
<tr>
<td>2 terms of SLoA</td>
<td>2 terms added to the time to degree completion</td>
</tr>
<tr>
<td>3 terms of SLoA</td>
<td>3 terms added to the time to degree completion</td>
</tr>
<tr>
<td>≥4 terms of SLoA</td>
<td>3 terms added to the time to degree completion</td>
</tr>
</tbody>
</table>

Note: SLoA approved prior to Summer 2018 will fall under the old version of the policy. SLoA approved Summer 2018 or later will follow the new policy. Students that fall under the old version of the policy can petition the 7-year Policy if extreme circumstances of SLoA cause delay beyond 7 years to completion.

Students who do not maintain continuous enrollment without a Special Leave of Absence (see Continuous Attendance and Special Leave of Absence in the General Graduate Policies) or exceed the period allowed in the leave request must file for readmission to the university.

Readmission

If doctoral students do not maintain continuous enrollment (see Continuous Attendance in the General Graduate Policies), they must file for readmission to the university. To file for readmission, the student must complete a new online application. For more information
about readmission, refer to the Admissions in this catalog.

Readmission decisions are individually made, based on such factors as space in the program, reasons for the break in graduate education, progress in the degree program, among others. Readmission is not guaranteed.

4. Education Specialist Programs Policies

Examinations

Educational Leadership majors must successfully complete one 5-hour examination in their major area and one 3-hour examination in an area of specialization. Curriculum and Instruction majors must successfully complete one 3-hour examination in their teaching specialty and one 3-hour examination in the Educational Foundations area. School Psychology (School Psychology Track) students must successfully complete one 3-hour examination during the last semester of enrollment.

Program of Study and Academic Standards

A program of study (i.e., required course work) will be specified by the student's program area and approved by the college. Minimal core requirements for the EdS degree consist of 36 hours beyond the master's degree, which must include a minimum of 12 graduate-level hours in the specialization area, 6 graduate-level hours in research/statistics, and additional core requirements that are specific to each of the EdS degrees. An approved program of study must be on file with the College of Graduate Studies by the end of the student's second major term. A graduate status GPA of 3.0 must be maintained in all graduate course work taken at UCF since admission into the specialist program. All academic standards which apply to master's students will also apply to specialist students.

Specialist Admission Requirements

Minimum university standards for admission can be found in the University Admissions Standards section of the catalog. Meeting minimum university admission standards may not satisfy Educational Specialist program admission requirements. Programs often require additional or higher criteria. See the Graduate Programs section of the catalog for specific program requirements.

Time Limitation and Continuous Attendance

The student has seven years from the date of admission (prerequisite, articulation, and foundation courses are exempt) to the specialist program to complete the degree. No course older than seven years, at graduation, may be used in the program of study for a specialist degree. Students who do not maintain continuous enrollment (missing enrollment at the university for a period of three consecutive semesters) must file for readmission to the university, although seven years is measured from when the student was first admitted to the program.

Readmission

Specialist students should maintain continuous enrollment in their degree program. Students who anticipate that they may not be able to enroll continuously due to external circumstances should apply for a Special Leave of Absence (see Special Leave of Absence in the General Graduate Policies section).

If specialist students do not apply for a Special Leave of Absence and do not maintain continuous enrollment (see Continuous Attendance in the General Graduate Policies section), they must file for readmission to the university. To file for readmission, the student must complete a new online Application. For more information about readmission, refer to the Admissions section of this catalog.

Readmission decisions are individually made, based on such factors as space in the program, reasons for the break in graduate education, progress in the degree program, among others. Readmission is not guaranteed.

UCF Education Specialist Programs Purpose

Education Specialist (EdS) degrees are awarded in Educational Leadership, Curriculum and Instruction, and School Psychology (which offers a track in School Counseling). The EdS degree provides an opportunity for professionals in leadership positions in an educational environment to receive in-depth academic study. This degree provides the opportunity for the development of a high level of professional proficiency in such areas as instruction, supervision, administration, curriculum, and current research literature. The primary goal of the EdS degree is teaching or acquiring professional proficiency in a specialized education-related area. Because the purpose of the EdS degree may differ from that of the EdD, credit earned in an EdS program is not automatically transferable to a
doctoral program. Instead, if a holder of an EdS degree enters a doctoral program at a later date, the doctoral advisory committee will decide how much of the credit earned in the EdS program will be credited toward the doctorate. In any case, only 30 hours taken prior to doctoral status may be transferred into the doctoral program of study.

5. Master’s Program Policies

Accelerated Undergraduate and Graduate Programs

Some programs combine undergraduate and graduate course work in a more seamless educational experience for students, reducing the time spent working on both degrees and providing a challenging educational experience to outstanding undergraduates. These accelerated bachelor's and master's (4+1) programs usually will allow students to complete a bachelor's and master's degree within about five years and are intended for only the most highly qualified undergraduate students.

While students are classified as undergraduate students, they are subject to undergraduate policies. Similarly, when classified as graduate students, they are subject to graduate policies and may qualify for graduate financial support.

The undergraduate requirements listed in the Graduate Catalog for specific programs are for informational purposes only. The official requirements are detailed in the Undergraduate Catalog and take precedence over what is described here.

Advisement

Appointment of Committee or Advisor

An academic advisor and advisory committee is required when the student is enrolled in a thesis option and can be useful when there is substantial flexibility in course work. It is the responsibility of the department to appoint an advisor and advisory committee.

Conferral of Master's Degrees for Students in Doctoral Degree Programs

A student making satisfactory progress in a doctoral program may be eligible to be awarded a Master's degree in the same discipline. The Master's degree program and the College of Graduate Studies have the authority to determine whether the doctoral program credits satisfactorily fulfill the Master's degree requirements. All requirements for the Master's degree must be fulfilled, including passing all examinations and submitting a thesis, if so required. Up to a maximum of 9 graduate credit hours of substitutions are allowable, provided that the substitutions are higher-level courses for their precise lower-level counterparts, exclusive of substitutions for thesis hours.

In such cases:

1. The program requirements for the Master's degree are governed by the requirement term used for the doctoral degree program.
2. The two degrees are not considered to be part of a formal “dual degree” program and, therefore, are not subject to the policies governing dual degree programs.
3. Courses credited towards the Master's degree are not implemented as transfer credits to another program and therefore fall outside of the transfer credit policy.

The general restriction that no credit hours may be counted for more than two-degree programs applies to these Master's degrees as well. Credits from a previously earned Master's degree may not be used to fulfill the requirements of a Master's degree for a student in a doctoral degree program (a “Master's along-the-way”).

Course Requirements

The program requirements for a master's degree may include core and elective courses, seminars, independent study, clinical courses, directed research, and thesis research.

- A minimum of 30 semester hours of post-baccalaureate, graduate work (5000-level or higher) is required and must be taken as part of an approved graduate program of study. Some programs require more than the minimum of 30 hours because of the nature of the discipline and the standards of the associated profession.
- At least half of the credit hours used to meet program requirements must be at the 6000 level.
- Only graduate-level work with a grade of "C-" or higher may be used to satisfy degree requirements.
- For the master's degree, at least 24 semester hours of core and elective courses must be earned exclusive of thesis and research.
- In no case will the number of thesis hours in excess of the amount required by a program be counted toward degree completion.
- At least 50% of the credits offered for the degree are expected to be derived from a single field of concentration (that is, from...
one department). However, programs that are interdisciplinary in nature may be exempt from this policy upon approval from the Graduate Council Curriculum Committee.

- A research report, capstone course, comprehensive exam, or other culminating experience that demonstrates that graduate students have engaged in independent learning is required in a nonthesis option master's program. An explanation of how the culminating experience promotes independent learning is required in each program's curricular description.
- A thesis hour requirement may only be satisfied by enrollment in thesis hours.
- In the case where a student changes from a thesis to a nonthesis option, up to 6 thesis hours may be used to substitute for other research hours.

Independent Study Hours

- Independent study (XXX 6908) may be taken for a total of no more than six semester hours.

Residence Credit

The master's degree program must include at least 21 semester credit hours taken at UCF. Residence credits may be earned through enrollment in courses physically offered on the main campus; or at the UCF regional campuses (Brevard, Daytona Beach, and Downtown); or at geographical locations where UCF courses are being taught by regular UCF faculty members. Residence credits may also include UCF courses offered through the web or courses taken as a Traveling Scholar if prior approval is obtained.

Master’s Admission Requirements

Minimum university standards for admission can be found in the University Admission Standards section of the catalog. Meeting minimum university admission standards may not satisfy master's program admission requirements. Programs often require additional or higher criteria. See the Graduate Programs section of the catalog for specific program requirements.

Other Academic Requirements

Comprehensive Culminating Experience

An appropriate culminating academic experience is required of all master's degree students. It may include a thesis defense, written or oral examination, research report, capstone course, presentation and defense of a portfolio of student work, or other appropriate scholarly activity of a type that has been approved by the Graduate Council that demonstrates that graduate students have engaged in independent learning. An explanation of how the culminating experience promotes independent learning is required in each program's curricular description.

Senior Scholars

UCF undergraduates who meet departmental eligibility requirements may enroll in UCF graduate courses and use them toward their undergraduate degree and their graduate program of study upon admission to a UCF graduate program. As Senior Scholars, they are entitled to use up to nine graduate credit hours (more may apply for some accelerated programs) toward a UCF graduate degree or certificate, provided they have received advisement and written approval to do so from the graduate program director. This permission must be obtained before enrolling in the graduate courses. In addition to approval from the graduate program director, undergraduates must consult their undergraduate adviser to ensure that registration in graduate-level course work will meet their bachelor's degree requirements. The student must receive college and university approval to interrupt the residency requirement. The University Waiver Form can be obtained from the undergraduate department office. Tuition and fees for graduate-level courses are different from undergraduate courses, and it is the student's responsibility to consult with the Office of Student Financial Assistance (http://finaid.ucf.edu) regarding adjustments that might be needed for Bright Futures and other scholarship funding.

Thesis Requirements

The thesis is the culminating or comprehensive experience for those who conduct an original research study as part of a thesis-option program. The thesis consists of a common theme with an introduction and literature review, details of the study, and results and conclusions. Since the work is original, it is very important that care is taken in properly citing ideas and quotations of others. Academic dishonesty in a thesis, research report, and dissertation work may result in termination from the degree program.

An oral defense of the thesis is required. The approved thesis must be written and prepared in accordance with the program, college, and university requirements. Thesis and Dissertation (ETD) describes university requirements and formatting instructions for theses and outlines the steps that graduate students must follow in order to submit their theses electronically to the UCF College of Graduate Studies.

Additionally, the Thesis and Dissertation Office offers workshops to inform graduate students about procedures, deadlines, and requirements associated with preparing a thesis.
Thesis students are required to submit their thesis electronically. Electronic thesis/dissertation (ETD) submissions are archived by the UCF library in a digital format that is widely accessible. The electronic thesis may include video and audio clips as well as other formats that are appropriate for the field of study.

All theses that use research involving human subjects, including surveys, must obtain approval from an independent board, the Institutional Review Board (IRB) prior to starting the research. Graduate students and the faculty that supervise them are required to attend training on IRB policies, so this needs to start well in advance of the research start date. It is imperative that proper procedures are followed when using human subjects in research projects. Information about this process can be obtained from the Office of Research (www.research.ucf.edu). Click on “Compliance” and the IRB Policy and Procedures Manual is available. In addition, should the nature of the research or the faculty supervision change since the IRB approval was obtained, then new IRB approval must be sought. Failure to obtain this prior approval could jeopardize receipt of the student's degree.

Students who wish to complete their degree requirements in a given semester must take their oral defense and submit their final electronic copy to the UCF College of Graduate Studies by the dates shown in the Academic Calendar.

Thesis Advisory Committee Membership

A student writing a thesis must have a Thesis Advisory Committee consisting of at least three members who are approved members of the Graduate Faculty. This committee will recommend to the Dean of the college regarding the student's program of study, provide continual guidance for the student, and be the principal mechanism for the evaluation of the student's thesis and performance in any general examinations. At least two members of the Thesis Advisory Committee must be Graduate Faculty, one of whom must serve as the chair of the committee. Graduate Faculty Scholars may serve as a member or co-chair of a thesis advisory committee but may not serve as the chair.

Program areas may specify additional committee membership beyond the minimum of three. These committee members must also be approved members of the Graduate Faculty or Graduate Faculty Scholars. Graduate Faculty members must form the majority of any given committee. Additional information regarding the criteria for serving as a member, co-chair, or chair of a Thesis Advisory Committee is provided in the updated Graduate Faculty policy.

Committee membership must be approved by the program director and submitted to the College of Graduate Studies. All members must be in fields related to the thesis topic. The UCF College of Graduate Studies reserves the right to review appointments to a Thesis Advisory Committee, place a representative on any Thesis Advisory Committee, or appoint a co-chair. A student may request a change in membership of the Thesis Advisory Committee with the approval of the program director and re-submission to the College of Graduate Studies.

All committee members vote on acceptance or rejection of the final thesis. The thesis proposal and final thesis must be approved by a majority of the committee.

Responsibilities of Members of Thesis Advisory Committees

All members of the doctoral advisory committee have responsibilities. See the Graduate Faculty and Graduate Faculty Scholars Policy for this information.

Enrollment in Thesis Hours

After completion of other course requirements, master's level students may be considered full-time if they enroll in at least three credit hours of thesis (XXX 6971) hours only. They subsequently must enroll in three thesis hours each semester continuously (including summers) until the successful completion of minimum program coursework and thesis hours. After which, with the approval of the thesis committee chair or adviser, students may enroll in a minimum of one thesis hour per semester. Students enrolled in thesis hours simultaneously with coursework hours must be enrolled in a combined nine credit hours to be considered full time for the fall and spring semesters, or six credit hours to be enrolled full time in the summer semester. Students who need to interrupt their thesis work for extenuating circumstances must submit a Leave of Absence Form to the College of Graduate Studies. Submission and approval of the form must be obtained prior to the first day of classes for the term of non-enrollment.

Thesis Defense

The thesis defense is an oral presentation and defense of the written thesis describing the student's research. The advisory committee will evaluate and judge the thesis defense. The defense is a formal academic requirement and should be accorded respect and dignity, and thus, no refreshments or other distractions should be served during the defense.

Thesis defenses will be approved by a majority vote of the Thesis Advisory Committee. Thesis committee members who do not approve of the thesis may choose not to sign the thesis approval sheet. Further approval is required from the Dean or Dean designee and the UCF College of Graduate Studies before final acceptance of the thesis in fulfilling degree requirements.

Graduate programs may elect to offer alternatives to face-to-face dissertation defense. Programs that choose to offer such alternatives must develop and ensure procedures for the implementation of the alternative defense process and procedures must be published in the program's handbook. These procedures should address the form and time for the student's request for an alternative defense and the process for seeking approval.

Review for Original Work

The university requires all students submitting a thesis as part of their graduate degree requirements to first have their electronic documents submitted through iThenticate for advisement purposes and for review of originality. The thesis chair is responsible for scheduling this submission to iThenticate and for reviewing the results from iThenticate with the student's advisory committee. The advisory committee uses the results appropriately to assist the student in the preparation of their thesis.

Before the student may be approved for final submission to the university, the thesis chair must indicate completion of the Review for Original Work through iThenticate by signing the Thesis Approval Form.
Thesis Dissemination

While UCF respects the wishes of students who would like to publish their work and/or apply for patents, it is essential for scholarly research conducted at a university to be available for dissemination. While several options are available for the release of an ETD, it is the goal of the university that all theses be available through the UCF Libraries catalog. Upon uploading the final ETD to the UCF Libraries ETD website, students, in some cases with their advisers, must choose one of the options for the availability of their ETD through UCF. Students with potential patent concerns are required to discuss the following options with their thesis adviser and indicate the availability choice on the Thesis and Dissertation Release Option electronic form, which the student submits in the myUCF Student Center.

For those with no patent or copyright concerns:
- Immediate worldwide dissemination with no restrictions.

For those who have patent issues dissemination options must be discussed and agreed to with your adviser. Choices are:
- Pending dissemination of the entire work for six months for patent or other proprietary issues, with an additional six months extension available. Once the patent and proprietary issues are resolved, then immediate worldwide dissemination with no restrictions.
- Pending dissemination of the entire work for six months for patent or other proprietary issues, with an additional six months extension available. Once the patent and proprietary issues are resolved, choosing this option allows the student to make the thesis available to the university community for the period chosen below, and then for it to be distributed via the Web beyond that time.
  - one year
  - three years*
  - five years*

For those who have copyright concerns, dissemination options are a student decision within the guidelines of individual departments that may have requirements for dissemination. If a department has no guidelines for dissemination, then students are free to choose one of the options below. In general, those in the sciences and engineering will choose one year while students in the arts and humanities may choose longer. Choosing this option allows the student to make the thesis available to the university community for the period chosen below, and then for it to be distributed via the Web beyond that time.
  - one year
  - three years*
  - five years*

*Does not require thesis advisor signature and approval.

Public Access

Students, faculty, staff, and other interested parties are strongly encouraged to attend thesis final defense sessions. Notices providing the date, time, and location of such meetings must be announced at least 2 weeks prior to the defense to all academic departments. These sessions are educational and informative for graduate students and provide an opportunity for colleagues to observe the work of their peers. At the discretion of the Chair of the Thesis Advisory Committee, questions may be invited from the audience. That part of the session involving committee discussion leading to a vote on the acceptance of the work will be closed. Sessions may be recessed briefly to excuse visitors and the candidate before this stage begins.

Time Limitation for Degree Completion

The student has seven years from the date of admission to the master's program to complete the degree. Students may transfer in coursework according to the Transfer of Credit policy, however, courses older than seven years at the time of admission will not be transferred into the student's Program of Study.

Students who anticipate being out for an extended period of three consecutive semesters or longer should apply for a Special Leave of Absence no later than the end of the add/drop period of the third semester of absence. Students who do not maintain continuous enrollment without a Special Leave of Absence (see Continuous Attendance and Special Leave of Absence in the General Graduate Policies) must file for readmission to the university, although seven years is measured from when the student was first admitted to the program.

Readmission

Master's students should maintain continuous enrollment in their degree program. Students who anticipate that they may not be able to enroll continuously due to external circumstances should apply for a Special Leave of Absence (see Special Leave of Absence in the General Graduate Policies).

If master's students do not maintain continuous enrollment and have not filed for a special leave of absence (see Continuous Attendance in the General Graduate Policies), they must file for readmission to the university. To file for readmission, the student must complete a new online application. For more information about readmission, refer to the Admissions section of this catalog.

Readmission decisions are individually made, based on such factors as space in the program, reasons for the break-in graduate education, progress in the degree program, among others. Readmission is not guaranteed.

2021-2022 Graduate Catalog
6. Graduate Certificate Program Policies

Certificate Program Admission Requirements

Students currently admitted to a graduate degree program or to non-degree status can apply and are eligible to enroll in graduate certificate programs. In addition, individuals who have previously completed bachelor's, master's, or doctoral degrees are eligible to enroll in certificate programs. In order to apply to a graduate certificate program, a student must submit an online admissions application, pay a $30 application fee, and submit an official transcript showing an earned bachelor's or higher degree from an accredited institution recognized by UCF or recognized foreign institution. On the online application, the student must designate the certificate program that they wish to enter. Students are required to submit the application and obtain formal admission to the graduate certificate program. Students are advised to apply for the graduate certificate program well in advance of completion of all required courses. Students must complete the certificate requirements that are listed in the Graduate Catalog that is in effect at the time of their formal admission to the certificate program.

Admission to a certificate program does not guarantee admission to a graduate program. However, once a person is accepted into a master's, specialist, and doctoral graduate program, credits from a completed UCF certificate program may be applied toward an existing graduate program with the consent of the program.

Nondegree students who are enrolled in a certificate program are not eligible for tuition support, assistantships, or fellowships, and are not generally eligible for federal financial aid.

Certificate Programs Purpose

Graduate certificate programs are a way for universities to provide the latest disciplinary knowledge in the most flexible and convenient formats for the professional development of its alums and others who desire further education. Graduate certificate programs are very popular options at UCF for graduate study without having to commit to an existing master's or doctoral program. One of the benefits of enrolling in a graduate certificate program is that later, should students decide to do so, they can usually apply all of the credits earned in the graduate certificate to a graduate program. The graduate certificate program is meant to be flexible and offer a short-term study that provides specialized knowledge that supplements an existing degree. Graduate certificate programs are particularly helpful to those professions where licensure and continuing professional development are required. Many of our graduate certificate programs are offered online for convenience. One of the most important benefits of our graduate certificate programs is that they are taught by our graduate faculty using regular graduate courses at the university.

UCF has 103 graduate certificate programs available to supplement existing graduate programs or to provide specialized knowledge in disciplines that complement the education of working professionals in the metropolitan area served by UCF. Many of our area employees have advanced graduate degrees and can enhance their education with specialized groups of courses. Frequently, a package of specialized courses that forms a certificate will increase employment credentials, lead to career enhancement, and produce more income.

It is the intent of these programs to be current and to provide specialized, state-of-the-art content to area employees. Often certificate programs are offered using flexible and non-traditional delivery systems that provide the best service to the employees in this metropolitan area. Distributed learning, weekend courses, evening courses, and accelerated term courses are acceptable.

Certificate programs are often ideal for nondegree students who would like to sample graduate courses before committing to a graduate degree program. Certificate programs may round out a graduate degree program, providing a special emphasis that supplements a graduate degree. Frequently, a certificate program can provide an interdisciplinary focus that provides more depth and understanding to an existing graduate program.

Any academic unit may propose a graduate certificate program that encompasses graduate courses in its graduate program. If an interdisciplinary certificate program is proposed, it must be acceptable to departments and faculty offering the courses and graduate programs on which the certificate program is based.

Completion of Graduate Certificate

In order to be processed for completion of a graduate certificate program, students must have obtained formal admission into the graduate certificate program (see Certificate Program Admission Requirements above). Students nearing completion of a graduate certificate program must complete the online Intent to Graduate Form by logging into myUCF and navigating to the Student Self Service> Student Center> Other Academics > Intent to Graduate: Apply. Intents to graduate should be filed online no later than the last day of registration for the semester of graduate certificate completion.

Students will only be processed for completion of a graduate certificate if they have previously submitted a certificate application form, have been formally admitted to the program, and have filed an intent to graduate.

Course Requirements and Loads
A certificate program must include a minimum of nine semester hours. The course work must consist of an integrated and organized sequence of study.

**Note: Course substitutions are not permitted in Certificate programs.**

No internship or independent study courses may be used in a certificate program. The use of practicum courses in certificate programs is not generally encouraged, but may be used in programs where there is a strong professional setting and on-campus faculty supervision. Alternative delivery programs are acceptable and encouraged.

Certificate students must take the full number of required hours for a certificate program. Generally, a course may not apply toward more than one certificate program. However, if an overlap of coursework occurs between two or more certificate programs for the same student, the student must complete the total required hours by taking electives approved by the program.

All courses that are offered as part of a certificate program must be graduate-level courses. Students must earn course grades of "B-" or better to get credit toward the certificate. Courses may be retaken to achieve a better grade. However, the certificate will only be awarded if the graduate status GPA in the certificate program of study is 3.0 or higher.

**Transfer of Credit**

No graduate credit hours taken at other institutions can be applied to a graduate certificate program at UCF. If requested prior to the completion of the certificate program requirements, graduate credit hours taken at UCF from a prior baccalaureate, master's, specialist, or doctoral degree may be applied toward a certificate, with the consent of the program, provided they are no more than seven years old. The request for using credits from prior years must be submitted no later than the end of the add/drop period in the semester in which the student takes the final course in the certificate program.

**Time Limitation for Certificate Completion**

The student has seven years from the date of admission (prerequisite, articulation, and foundation courses are exempt) to the certificate program to complete the certificate. In addition, no course older than seven years at the time of graduation may be used in the Program of Study for a certificate.

Students who do not maintain continuous enrollment (missing enrollment at the university for a period of three consecutive semesters) must file for readmission to the university, although seven years is measured from when the student was first admitted to the program.

Students who anticipate being out for an extended period of three consecutive semesters or longer should apply for a Special Leave of Absence no later than the end of the add/drop period of the third semester of absence. Students who do not maintain continuous enrollment without a Special Leave of Absence (see Continuous Attendance and Special Leave of Absence in the General Graduate Policies) must file for readmission to the university, although seven years is measured from when the student was first admitted to the program.

**Readmission**

Certificate students should maintain continuous enrollment in their certificate program. Students who anticipate that they may not be able to enroll continuously due to external circumstances should apply for a Special Leave of Absence (see Special Leave of Absence in the General Graduate Policies).

The student has seven years from the date of admission to the program to earn their degree. Students who do not maintain continuous enrollment (missing enrollment at the university for a period of three consecutive semesters) must file for readmission to the university. Although seven years is measured from when the student was first admitted to the program.

If certificate students do not maintain continuous enrollment and have not filed for a special leave of absence (see Continuous Enrollment in the General Graduate Policies), they must file for readmission to the university. To file for readmission, the student must complete a new online application. For more information about readmission, refer to the Admissions section of this catalog.

Readmission decisions are individually made, based on such factors as space in the program, reasons for the break-in graduate education, progress in the certificate program, among others. Readmission is not guaranteed.

**7. International Graduate Student Policies**

**English-speaking Ability for Graduate Teaching Associates and Assistants**

Students who plan to serve as graduate teaching associates or assistants (GTAs) and for whom English is a second language are required to pass the Versant English test. The Versant English test evaluates an individual's English-speaking skills. This requirement applies to all students from countries where English is not the native language; however, such students will be exempt if they have completed a previous degree from an accredited U.S. college or university recognized by UCF, from a country where English is the only official language, or from a university at which English is the only official language of instruction, or they have received a score of 26 or higher on the Speak portion of the ibt TOEFL. Only exempted students and those who have attended the UCF GTA Training and satisfactorily passed the evaluation of their English-speaking skills may be assigned as GTAs.
For more information about this requirement and the free English-speaking training that the university provides, see English-speaking Ability for Graduate Teaching in the Assistantships section of this graduate catalog and https://graduate.ucf.edu/graduate-teaching/. See Graduate Teaching in the UCF Graduate Student Handbook for Information on registering for GTA Training and Versant English testing.

**Full-time Enrollment Requirements**

A full-time degree-seeking graduate student must take at least 9 credit hours in the fall and spring semesters. A half-time load is defined as enrolled in at least 4.5 credit hours in fall and spring terms. During the summer term, full-time is 6 credit hours and half-time is 3 credit hours. There are two exceptions to this policy:

1. For master's students pursuing a thesis option, full-time enrollment is defined as 3 hours per semester (including summers, without skipping a semester) of thesis coursework (XXX 6971), after completion of all coursework and until graduation. Students who wish to enroll in part-time hours should consult their adviser.

2. For doctoral students who have passed the candidacy exam and are registered for doctoral dissertation (XXX 7980) hours only, full-time is 3 hours per semester until graduation. Such students must continue to enroll in at least three dissertation hours each semester (including summers, without skipping a semester) until they successfully complete the dissertation and graduate. Students who wish to enroll in part-time hours should consult their adviser.

Graduate students receiving assistantships, tuition support, and fellowships must be enrolled full-time as degree-seeking students who maintain good academic progress.

**Special Considerations**

All international students on F or J visas must maintain full-time, degree-seeking status regardless of financial support received from the university. F and J visa holders should contact UCF Global to ensure that their enrollment conforms to the full-time definition of their visa status. International students should not change their course schedule or drop classes without advisement from the UCF Global. All international students who enroll in less than 9 hours per term must submit to UCF Global a Reduced Course Load Form that explains the nature of the reduced hours and must obtain approval from UCF Global (see https://global.ucf.edu/ for Reduced Course Load Form). This requirement also applies to international students who are enrolled in less than 9 hours per term in thesis or dissertation hours. Students who do not satisfy these full-time enrollment requirements will not qualify for graduate assistantships, fellowships, or tuition support.

**International Student Employment**

According to U.S. Citizenship and Immigration Services (USCIS) regulations, graduate students who are on an F-1 or J-1 visa may accept employment on campus without prior USCIS approval as long as students are enrolled full-time and employment does not interfere with their studies.

Graduate students who desire to engage in off-campus employment must be approved by the UCF Global for Curricular Practical Training (CPT) prior to beginning the employment. CPT is defined as employment that is an integral part of the established curriculum and can be in the form of an internship or cooperative educational experience. In order to qualify for CPT, there are several requirements that must be met. Please speak with an adviser at the UCF Global for more information on these requirements and prior to engaging in off-campus employment.

During the fall and spring semesters, on-campus employment is limited to no more than 20 hours per week while school is in session. During the summer, on-campus employment may be up to 40 hours per week. (Please note that all graduate assistants during the summer must enroll in a full-time course load.) Employment may also be up to 40 hours per week during vacation or other break periods. Please speak with an adviser at the UCF Global for clarification of these policies.

On-campus employment is not permitted after completion of the program of study unless the student is issued a Form I-20A-B to begin a new program and intends to enroll in the next regular academic term or session.

Students who received a bachelor's degree at one school and will start a master's degree or PhD at UCF are eligible to work during the summer at UCF as long as a Form I-20A-B was issued for the new masters or PhD program.

International students on an F-1 visa are eligible to apply for one year of optional practical training (OPT) after completion of their program.

For more information about the employment of international students, contact the UCF Global at (407) 823-2337 or visit the office to speak with an advisor.

**International Visiting Scholars**

The following policy and procedures allow departments to invite international visitors to study, teach, or participate in research activities at UCF. The policy is directed to those who do not wish to earn a degree, but who may audit courses in the
postbaccalaureate, nondegree-seeking status for professional development and who normally have complete financial support provided by some outside agency. These visiting scholars will have J-1 visa status and use the Professor, Research Scholar, or Specialist category as permitted by immigration regulations. Visitors seeking degrees will use regular UCF admission procedures and must enter the United States using the F-1 or J-1 visa student category.

Visiting scholars who are required to audit courses at UCF must fill out the UCF application for admission as a nondegree student and pay the application fee. The deadline is about four months before the beginning of a term. A faculty member, as Faculty Sponsor, must accept the responsibility for recommending, advising, and directing the activities of the scholar. The procedure for extending an invitation to a prospective scholar is as follows:

1. If financial support will be provided to the visiting scholar using university resources, then the approval of the university must be obtained on all correspondence with the visiting scholar. Written arrangements should be made with the Vice President for Research for financial support prior to invitations to visiting scholars.

2. The Department Chair will submit a recommendation to the Dean specifying the Faculty Sponsor, documenting anticipated activities, and providing the following information on the Visiting Scholar:
   - Date of birth
   - City and country of birth
   - Country of residence if different from country of birth
   - Place of work (academic institution, business firm, etc.)
   - Current position held in country of residence
   - Academic background
   - Professional experience
   - Source and amount of financial support (recommended honorarium, if any)
   - English proficiency
   - Dates of visit
   - Statement of how the Visiting Scholar will participate in research and what will be accomplished
   - Office space, equipment, etc. which will be required for scholar's use

3. If arrangements are approved, the Dean will notify the Vice President for Research that the College is extending an invitation. The Chair's recommendation will be included with the notification. These will be sent to the UCF College of Graduate Studies so that the invitation and application may be placed in the visiting scholar's official university file.

4. The UCF College of Graduate Studies will then forward copies of the information to the UCF Global. Upon receipt and verification of the required documents, a Form DS-2019 for the purpose of the J-1 visa application J-1 Visa will be issued.

5. The Faculty Sponsor will then correspond with the visitor detailing the conditions of the visit, including whatever limited financial support and facilities will be provided and what is expected of the Scholar, with copies of this correspondence sent to the UCF Global and the Vice President for Research. The Scholar will be asked to write a brief report at the termination of the visit.

6. All visiting scholars should report to the UCF Global directly upon arrival at UCF to ensure that their immigration documents are in order.

During each academic term of the visit, the Visiting Scholar may be required to audit one hour of XXX 6918, Directed Research, under the direction of the Faculty Sponsor and also may be permitted (or required) to audit regular courses. The Visiting Scholar will be admitted to postbaccalaureate status and will audit courses as directed and approved by the Faculty Sponsor. The Visiting Scholar will not be permitted to take courses for credit unless formally admitted to a degree program or upon written approval from the Dean of the college in which the student is studying.

The international visiting scholar will be appointed Visiting Research Scholar or Visiting Scholar in the College and may be given a modest honorarium. Such scholars will normally not be maintained on the College payroll, but are expected to have extended financial support.

### Linkage Agreements

The State of Florida has established various linkage agreements to assist in the development of stronger economic and social ties between Florida and strategic foreign countries. Linkage Institutes are set up throughout the state and provide out-of-state tuition exemption to scholars from the foreign countries represented by the institutes. To participate in these exemptions, students must apply to the Linkage Institute for the country in which they reside to receive an out-of-state tuition award. Students participating are required to return home after their tenure of graduate study for a length of time equal to the exemption period. Each institute develops its own criteria for selection of students and typically supports the out-of-state fees for about 20 to 30 scholars a year. The institutes established in Florida are listed below with their contact persons.
Florida-Brazil Institute
Center for Latin American Studies
University of Florida
319 Grinter Hall
P.O. Box 115530
Gainesville, FL 32611-5530
Tel: (352) 392-0375 ext. 800
Fax: (352) 392-7682
Email: embruna@ufl.edu
Web Address: http://www.floridabrazil.org/

Florida-Caribbean Institute
Latin American & Caribbean Center
Florida International University
DM-353 11200 SW 8th Street
Miami, FL 33199
Phone: (305) 348-2894 Fax: (305) 348-3593
Email: lacc@fiu.edu
Web Address: lacc.fiu.edu/academics/financial/fci/

Florida-China Institute
Ms. Michelle Loufek
Eastern Florida State College
519 Clearlake Road, Bldg 11-238
Cocoa, FL 32922
Email: loufekm@easternflorida.edu

Rachel L. Hendrix, Ed.S.
Director | International Affairs
University of West Florida
11000 University Parkway
Building 71, Room 116
Pensacola, FL 32514
Phone: (850) 474-2479
Email: rhenrix@uwf.edu
Web Address: www.uwf.edu/fcli/

Florida-Costa Rica Institute
Stephanie Tillman
Co-Director | Florida Costa Rica Linkage
International Programs | Internship Coordinator
Florida State University
282 Champions Way
PO Box 3062420
Tallahassee, FL 32306
Phone: (850) 644-3272
Email: linkage-FLCR@fsu.edu
Web Address: flcrlinkage-fsu.us.fluidreview.com
Florida-Eastern Europe Institute
Mark Hartman, Director
UCF Global
University of Central Florida
4356 Scorpius St. Building 139
Orlando, Fl 32816-0130
Phone: (407) 823-2337 Fax: (407) 823-2526
Email: eeli@ucf.edu
Web Address: https://global.ucf.edu/linkages/eeli/

Florida-France Institute
Dr. Alexxis Avalon, Coordinator
University of South Florida
Florida-France Linkage Institute
USF World
4202 E. Fowler Ave. CGS 101
Tampa, Florida 33620
Email: ffli@usf.edu
Phone: (813) 974-5313 Fax: (813) 974-8271

Dr. Christine Probes, Co-director
Florida France Institute
University of South Florida
4202 E. Fowler Ave., CPR417
Tampa, FL 33620-5550
Email: probes@usf.edu

Marianella Baez Jost, Co-Director
Florida State University
International Program Coordinator
Florida State University International Programs
282 Champions Way PO Box 3062420
Tallahassee, FL 32306-2420
Phone: (850) 644-7622 Fax: (850) 644-8817
Email: mjost@admin.fsu.edu
Web Address: FL-France Institute | About | USF World
Florida-Israel Institute
Daniel Raviv, Director
Florida-Israel Institute
Florida Atlantic University, SE-470
777 Glades Road
Boca Raton, FL 33431
Phone: (561) 297-2773
Email: ravivd@fau.edu

Lisbeth Isaacs, B.S.
District Director, Global Operations
Florida-Israel Institute
Broward Community College
225 East Las Olas Boulevard
Fort Lauderdale, FL 33301
Phone: (954) 201-7706
Email: lisaacs@broward.edu

Dr. David D. Moore
Associate Vice President for International Education
Broward Community College
225 East Las Olas Boulevard, Building 31, Room 302G
Fort Lauderdale, FL 33301
Phone: (954) 201-7707 Fax: (954) 201-7708
Email: dmoore@broward.edu
Web Address: http://www.floridaisrael.org/

Florida-Japan Institute
Rachel L. Hendrix, Co-Director
University of West Florida
11000 University Parkway
Pensacola, FL 32514
Phone: (850) 474-2479
Email: Japan@uwf.edu

Frank Jurkovic, Co-Director
St. Petersburg College
6605 5th Avenue North
St. Petersburg, FL 33710
Phone: (727) 341-4732 Fax: (727) 341-4623
Email: jurkovic.frank@spcollege.edu
Web Address: Florida-Japan Linkage Institute | University of West Florida (uwf.edu)

Florida-Mexico Institute
Latin American & Caribbean Center
Florida International University
DM-353 11200 SW 8th Street
Miami, FL 33199
Phone: (305) 348-2894 Fax: (305) 348-3593
Email: lacc@fiu.edu
Web Address: lacc.fiu.edu/academics/financial/fmi/
Florida-West Africa Institute

Mrs. Adianez Garcia Campos
International Center, Building 58E, Room 2300
University of North Florida
1 UNF Drive
Jacksonville, FL 32224
Phone: (904) 620-2657 Fax: (904) 620-3925
Email: intlctr.scholarships@unf.edu

Mrs. Julie Abbot
Florida State College at Jacksonville
101 W. State St.
Jacksonville, FL 32202-2056
Phone: (904) 632-3248
Email: flawi@fscj.edu

Ms. Anges Coppin
Florida A&M University
Office of International Education and Development
Lee Hall Building, Suite 100
Tallahassee, FL 32307
Phone: (850) 599-3295 Fax: (850) 561-2520
Email: agnes.coppin@famu.edu
Web Address: www.unf.edu/intlctr/FLAWI_Waiver.aspx
Global Health and Public Affairs Graduate Certificate

College

Program Description

| College: Community Innovation and Education | Degree: CRT |
| Department: Dean's Office |

Mathematics and Science Educator Graduate Certificate

Program Description

| College: Community Innovation and Education | Degree: CRT |
| Department: School of Teacher Education |
| Program Website: https://ccie.ucf.edu/secondary-education/ |

College of Arts and Humanities

Cognitive Sciences Graduate Certificate

College

College of Arts and Humanities

Department

Department of Philosophy

Program Website

https://philosophy.cah.ucf.edu/program/cognitive-sciences-grad-certificate/

Program Contact Information

Mason Cash PhD
Associate Professor
mason.cash@ucf.edu
Telephone: 407-823-6857
Psychology Building (PSY) 0246

Is this program available 100% online?

No

Program Description

The Cognitive Sciences Graduate Certificate program focuses on the interdisciplinary study of cognitive systems. It integrates a diverse range of approaches to examining cognitive processes, investigating the structures that support and scaffold cognition, attempting to understand, model and construct cognitive systems, and philosophically examining the foundations and applications of the cognitive sciences. It also includes applications of these investigations to many areas of human endeavor, including technology design, communication, training, education and clinical settings.

The interdisciplinary program is founded on the belief that cognition is a complex range of phenomena that cannot be well understood from any single disciplinary perspective. Thus, the program includes core interdisciplinary courses on the Cognitive Sciences, as well as drawing from related courses from many areas including Communication Sciences and Disorders, Education, Engineering and Computer Science, Linguistics, Neuroscience, Philosophy and Psychology.

The Graduate Certificate in Cognitive Sciences is designed for students from diverse backgrounds who wish to: (i) deepen and broaden knowledge gained in a related bachelor's degree, (ii) prepare for master's or PhD programs in the cognitive sciences, or (iii) complement current study in UCF graduate programs related to the cognitive sciences.
Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Graduate Application Deadlines

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<thead>
<tr>
<th>Cognitive Sciences Graduate Certificate</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
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<tbody>
<tr>
<td>Domestic Applicants</td>
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<tr>
<td>International Applicants</td>
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</tbody>
</table>

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233

Degree Requirements

Required Courses
6 Total Credits

The program recommends that students complete these courses in the first year of the certificate

- Complete the following:
  - PHI5327 - Topics in the Cognitive Sciences (3)
  - PHI5340 - Research Methods in the Cognitive Sciences (3)

Core Elective Courses
9 - 11 Total Credits

Choose at least 9 credit hours of elective courses from at least three of the following four Core Areas.

- Complete 3 of the following
  - Language and Communication
    - Complete at least 1 of the following:
      - COM6046 - Interpersonal Communication (3)
      - LIN5137 - Linguistics (3)
      - SPA6410 - Aphasia and Related Disorders (3)
      - SPA6417 - Cognitive/Communicative Disorders (3)
      - TSL6252 - Sociolinguistics for ESOL (3)
      - TSL6250 - Applied Linguistics in ESOL (3)
  - Artificial Intelligence and Modeling Cognition
    - Complete at least 1 of the following:
      - CAP5636 - Advanced Artificial Intelligence (3)
      - CAP6640 - Computer Understanding of Natural Language (3)
      - CAP6671 - Intelligent Systems: Robots, Agents, and Humans (3)
      - EEL6878 - Modeling and Artificial Intelligence (3)
      - EEL6812 - Introduction to Neural Networks (3)
      - EEL6875 - Autonomous Agents (3)
  - Philosophy
    - Complete at least 1 of the following:
The document contains a list of courses from different programs, including philosophy, psychology and neuroscience, as well as restricted elective courses. It also includes a note about course prerequisites and substitutions. The Program Details section explains the policy of the College of Graduate Studies regarding course substitutions.

Creative Writing MFA

College

College of Arts and Humanities

Department

Department of English

Program Website

https://english.cah.ucf.edu/creative-writing-mfa/

Program Handbook

Creative Writing MFA
Program Contact Information

Terry Thaxton
terry.thaxton@ucf.edu
Telephone: 407-823-2112
Trevor Colbourn Hall (TCH) 251F

Ethan Watford
ethan.watford@ucf.edu
Telephone: 407-823-5329
Trevor Colbourn Hall (TCH) 251E

Is this program available 100% online?
No

Program Description

The Creative Writing MFA offers a workshop-intensive program in fiction, nonfiction, and poetry, emphasizing the art and craft of creative writing and concentrating on the student's written work. The program encourages hybrid and experimental forms.

The MFA program emphasizes the study of craft and published writing alongside the closely analyzed production of original work by students. Opportunities for professional development as writers, teachers, and editors abound. Our prolific, dedicated faculty members have won numerous prestigious awards for their work and have served as officers in national professional organizations. The MFA program in Creative Writing offers workshop courses in fiction, nonfiction, and poetry, emphasizing the art and craft of creative writing and concentrating on the student's written work.

The minimum total hours required for the Creative Writing MFA is 36 credit hours, including a minimum of nine required credit hours of graduate writing workshop classes. Each candidate will write a book-length creative thesis. There is no nonthesis option in Creative Writing.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Students are required to have a proficiency in American and British Literature as reflected by completing at least one survey course in each field. Students with baccalaureate degrees in subjects other than English whose transcripts do not clearly indicate successful completion of such courses will be required to complete survey courses in British and American literature as co-requisites before the thesis defense. The particular courses that satisfy these co-requisites are selected in consultation with the MFA program director.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation (preferably from current or former teachers).
- Statement of professional and creative goals, academic and creative background, and your commitment to community. (500-1000 words).
  - In the first sentence of your statement, please specify the primary genre of study (fiction, poetry, or literary nonfiction). In discussing your professional and creative goals, show us your passion for writing, your interest in specific styles or subjects, why you intend to pursue graduate study at UCF, and what you hope to achieve in the program. In the first sentence, you must identify the genre in which you are applying—fiction, poetry, creative nonfiction, or hybrid form. We encourage applications in hybrid, literary and genre fiction, and experimental/new forms.
  - In discussing your academic and creative background, explain your background in writing, influences on your writing (other writers, specific classes, professors, or books), contemporary authors and works you admire, your extracurricular activities related to academia or writing, and any publications or awards you already have.
  - In discussing your commitment to community, comment on your investment in creating a supportive community of writers, including the value of peer critique and exchange of creative ideas, your interest or involvement in community events or outreach, and your commitment to diverse and inclusive literary spaces.
- Résumé or CV.
- A portfolio of fiction, poetry, or creative nonfiction. The portfolio must be in English and in the applicant's primary genre (up to 15 pages of poetry, 30 pages of fiction, or 30 pages of literary nonfiction). This manuscript is the most important element of a candidate's application. It will be evaluated by a committee of creative writing faculty to assess the candidate's readiness for graduate study. The committee's decision is based upon its qualitative assessment for the manuscript's competence in standard English and originality, and the author's demonstrated potential to succeed in the profession of creative writing.
- At least one survey course in both English and American literature at the university level (may be taken while in graduate residence).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

More detailed information about each of these program application requirements can be found on the Program's Website.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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<th>Creative Writing MFA</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

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Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
15 Total Credits

- Complete all of the following
  Core - 9 Hours
  - Complete all of the following
    - Complete at least 3 of the following:
      - CRW6025 - Advanced Graduate Writing Workshop (3)
      - CRW6920 - Fiction Workshop (3)
      - CRW6921 - Multi-Genre Workshop (3)
      - CRW6922 - Novel Workshop (3)
      - CRW6923 - Nonfiction Workshop (3)
      - CRW6924 - Poetry Workshop (3)
    - While the student is expected to concentrate their workshop study in their chief genre, multi-genre proficiency is encouraged. Additional credit hours beyond the required 9 credit hours in workshops that include their chief genre are recommended to assist the student in developing better writing and publication skills.
  Specialization - 6 Hours
  - Complete at least 2 of the following:
    - LIT6039 - Studies in Contemporary Poetry (3)
    - LIT6097 - Studies in Contemporary Fiction (3)
    - LIT6076 - Studies in Contemporary Nonfiction (3)
    - CRW5130 - Form and Theory in Creative Writing (3)

Elective Courses
15 Total Credits

- Complete all of the following
  Restricted Electives - 6 Hours
  - Complete all of the following
    - Earn at least 6 credits from the following:
      - CRW6720 - Professional Development in Creative Writing (3)
      - CRW6721 - Literary Journal Editing (3)
      - CRW6976 - Scholarship and Publication Models (3)
      - CRW6806C - Teaching Creative Writing (3)
      - CRW5948C - Creative Writing Service Learning (3)
      - CRW6946 - Internship (1 - 99)
      - CRW6025 - Advanced Graduate Writing Workshop (3)
    - CRW 5938 - Special Topics Seminar 3 Credit Hours may also be taken if offered CRW 6920, CRW 6921, CRW 6922, CRW 6923, CRW 6924 may substitute for CRW 6025
  Unrestricted Electives - 6 Hours
  - Earn at least 6 credits from the following:
    - CRW5130 - Form and Theory in Creative Writing (3)
    - LIT6216 - Issues in Literary Study (3)
    - LIT6936 - Studies in Literary, Cultural, and Textual Theory (3)
    - ENC5705 - Approaches to Teaching College Composition (3)
    - LIT6276 - Teaching College Literature (3)
  Additional Electives - 3 Hours
  - Earn at least 3 credits from the following types of courses:
    - An additional elective.

Thesis
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  CRW 6971 Thesis 3 Credit Hours The candidate will complete a book-length manuscript of publishable quality, written and revised in CRW 6971 Thesis, that meets both departmental and university requirements for the thesis.

Practicum and Internship (Optional)
0 Total Credits

- Although a practicum or an internship is not required, they are encouraged to better prepare the student for their profession. These courses fulfill the 6-hour requirement in restricted electives and are listed in that category. CRW 6946 Internship The Florida Review Internship 3 Credit Hours The Cypress Dome Internship 3 Credit Hours Other Approved Internship 3 Credit Hours CRW 5948C - Creative Writing Service Learning 3 Credit Hours

Independent Learning
0 Total Credits

- The creative thesis, a book-length manuscript of original creative work, is the independent learning experience.

Grand Total Credits: 36
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Emerging Media MFA

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Program Website
https://svad.cah.ucf.edu/academics/emerging-media/

Program Contact Information

Animation and Visual Effects Track

Cheryl Briggs MEd, MFA
Associate Professor
cheryl.briggs@ucf.edu
Telephone: 407-235-3611
Orlando Tech Center (OTC) Suite 500, Room 189

Studio Art and Design Track

Jason Burrell
Associate Lecturer
jason.burrell@ucf.edu
Telephone: 407-823-2676
Visual Arts Building (VAB) 117

Is this program available 100% online?
No
Program Description

The Master of Fine Arts in Emerging Media program offers tracks in Animation and Visual Effects and Studio Art and Design. The MFA is a terminal scholarly and creative degree suitable for those students wishing to pursue careers as professors in higher education or as creative leaders in the industry.

Both tracks require 60 credit hours and students follow a three-year cohort style program (six full-time semesters excluding summers). Degree credit is obtained in theory courses, electives, supervised research, and a thesis project. Students progress through the program by taking required classes in particular semesters. Students must remain with their cohort in order to remain in good academic standing and graduate.

The Animation and Visual Effects track is a specialized program designed to emulate the professional studio environment, providing opportunities to assume an artistic leadership role. The principal emphasis is placed on narrative film structure and the entrepreneurial aspects of animation as related to independent filmmaking, studio employment, and job creation.

The Studio Art and Design track provides students an opportunity to inform and enhance their artistic practice using twenty-first-century electronic media. The emphasis on electronic media is pliable enough to encompass the many ways in which technology intersects with contemporary art and design. Students in the program are invited to combine their backgrounds in traditional art- or computer-related disciplines within a conceptually driven, interdisciplinary environment. Courses provide exposure to time-based media, performance art, video art, sound works, kinetic sculpture, computer-based art, and art using the Internet in order to understand how these forms are driving twenty-first-century artistic practice and informing our understanding of contemporary cultural identities. Please scroll to the bottom of this page for further details on these Tracks.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track within this program. Track(s) may have different application requirements.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student’s graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu
Emerging Media MFA - Emerging Media MFA, Animation and Visual Effects Track

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Track Website
https://svad.cah.ucf.edu/program/animation-and-visual-effects/

Track Handbook
Emerging Media MFA, Animation and Visual Effects Track

Track Contact Information
Cheryl Briggs MEd, MFA
Associate Professor
cheryl.briggs@ucf.edu
Telephone: 407-235-3611
Orlando Tech Center (OTC) Suite 500, Room 189

Is this track available 100% online?
No

Track Description
Housed in the School of Visual Arts and Design (SVAD), the Emerging Media MFA - Animation and Visual Effects track is a specialized program designed to emulate the professional and independent studio environment, providing opportunities to assume an artistic leadership role. The principal emphasis is placed on narrative film structure and the entrepreneurial aspects of animation as related to independent filmmaking, studio employment, and job creation.

Designed to prepare students for careers in animation, courses provide an understanding of the collaborative function of a commercial studio during the first year production courses. In addition, students develop their unique style of independent filmmaking during preproduction and production of their thesis film over the duration of the three year program. Opportunities are available to co-direct a team of undergraduate character animation students, adding toward our canon of award-winning films. Labs and studios are equipped with the same industry-standard software and hardware used in professional studios.

Students desiring admission to the Emerging Media MFA - Animation and Visual Effects track should be primarily interested in the opportunity to create their own animation and/or visual effects thesis. In this program students are encouraged to develop their visual storytelling skills while using a variety of animation and visual effects techniques, including traditional hand-drawn, stop motion, 2D computer, and 3D computer animation.

Applicants should have an undergraduate degree in animation, visual effects, emerging media, art, film, theater, computer science, graphic design, illustration, creative writing, mass communications, game design, or related field and must demonstrate, through a portfolio of work and writing, that they are currently proficient and successful in the area of Animation.

The Emerging Media MFA - Animation and Visual Effects track is a competitive program whereby students receive the best instruction from professors who have had extensive professional industry experience and connections. Drawing on the expertise of the current faculty, graduates are well qualified to enter the teaching and academic professions. SVAD graduates have a competitive edge for greater opportunities within the animation, visual effects, and simulation industries.

Current SVAD alumni work for major animation and gaming companies such as Walt Disney Animation Studios, PIXAR Animation Studios, Blue-Sky Animation Studios, Weta Digital, Framestore, Lightbox, MPC, Tiltmouse, Netflix, Genius Brands, Reel FX, Nickelodeon Animation Studios, Blur Studios, Epic Games, Electronic Arts, Riot Games, Turtle Rock Studios, and Blizzard Entertainment or creating simulations for organizations including the U.S. Navy, NASA, DISTI, and Lockheed Martin.

The Animation and Visual Effects track in the Emerging Media MFA program is a full-time three-year program (six full-time semesters excluding summers in most instances) and students must progress through the program by taking required classes in particular semesters. The program requires a minimum of 60 credit hours including a thesis project. All courses must be approved by the Graduate Program Director. The thesis consists of producing a short film and thesis document.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Bachelor's Degree
Graduate students must maintain a 3.0 or better GPA in all course work to complete the program.

Track Prerequisites
Applicants to the MFA program normally must hold an earned bachelor's degree in one of the areas below or equivalent and must have exhibited, through a portfolio of work or writing that they are currently proficient and successful in the area of Animation.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants to the MFA program normally must hold an earned bachelor's degree in one of the areas below or equivalent and must have exhibited, through a portfolio of work or writing that they are currently proficient and successful in the area of Animation.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) for each college/university attended.
- A bachelor's degree in one of the following areas or equivalent:
  - Animation
  - Art
  - Emerging Media
  - Film
  - Theatre
  - Computer Science
  - Graphic Design
  - Illustration
  - Creative Writing
  - Mass Communications
  - Game Design
- The GRE is not required for admission to this program.
- Statement of purpose: In your own words, submit a 500-to-700 word statement of why you are interested in the Emerging Media MFA -Animation and Visual Effects track and what your intended focus might be. Tell us a little about yourself and your professional goals.
- Three letters of recommendation preferably from people who have personal knowledge of your abilities and scholarship such as educators/faculty members, employment supervisors, organizational leaders, or industry professionals with whom you have worked.
- Resume: Please submit a one to two page resume documenting your educational credentials, relevant professional and internship experience, academic achievements, honors, exhibits, publications, memberships, and interest including volunteer work.
- Original Animation/VFX Production Concept for a one to five-minute project:
  - A full storyboard
  - A full script treatment written in short story format for that storyboard
  - Visual Development drawings of characters, setting, and production design reflecting research and technique
- Other Creative Work:
  - A portfolio of ten to twenty pieces of traditional or digital work which demonstrates abilities in life drawing as well as proficiency in the field of animation and/or visual effects.
  - For each item submitted, include the title, media, date of completion, and size or length of the piece.
  - Some examples of work that could be submitted include:
    - 2D Design: Painting, drawing, photography, mixed media, fashion design, character design, illustrations, graphic designs, game, or film visual development artwork.
    - 3D Design: Sculpture, theatrical design, architectural renderings or models, 3D computer models, and installation pieces.
    - Drawing from life: Human and animal drawings, quick sketches, long poses, and perspective drawing.
    - Time Arts work (less than 3 minutes of work): Animation pieces, flipbooks, and/or demo reel.
    - Storytelling: Script or fictional narrative writing, sequential art illustration, comic book and graphic novel illustration and writing, book illustrations, and additional storyboards.
  - A computer-based score of 230 (or 89 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
  - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee admission to the MFA program. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program, and faculty expertise to the applicant's career/academic goals, the applicant's potential for completing the degree, and the current applicant pool. A strong emphasis is placed on the review of the portfolio of original creative work and the letter of research intent.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Graduate Admissions

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Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
48 Total Credits

- Complete the following:
  - DIG5439C - Script and Story Development for Animation and Visual Effects (3)
  - DIG5865 - The History of Animation and Visual Effects (3)
  - DIG5386C - Animation and Visual Effects Production I (3)
  - DIG5366C - Animation and Visual Effects Production II (3)
  - DIG5378C - Editing for Animation and Visual Effects I: Theory and Production (3)
  - DIG5385C - Visual Effects for Animation and Live Action I (3)
  - DIG5387C - Visual Development and Design for Animation and Visual Effects (3)
  - DIG6379C - Editing for Animation and Visual Effects II: Practical Editing (3)
  - DIG6365C - Media and Music for Animation and Visual Effects (3)
  - DIG6388C - Animation and Visual Effects Production III (3)
  - DIG6384C - Directing for Animation and Visual Effects (3)
  - DIG6398C - Animation and Visual Effects Production IV (3)
  - DIG6377C - Visual Effects for Animation and Live Action II (3)
  - DIG6866C - Technical Problem Solving for Animation and Visual Effects (3)
  - FIL5800 - Research Methods in Film and Digital Media (3)
  - FIL6619 - Guerilla Marketing and Models of Distribution (3)

Thesis
12 Total Credits

- Complete all of the following
- Earn at least 12 credits from the following:
  - DIG6971 - Thesis (1 - 99)

- The thesis consists of a short film production and thesis document. The final oral review before the supervisory thesis committee occurs at the end of the sixth semester. At the same time, the graduate student presents a short film production. Students are required to submit an electronic version of the thesis to the UCF College of Graduate Studies. After approval by the UCF College of Graduate Studies, the UCF Library will add it to its archives and make the electronic version of the thesis accessible on the web. The required thesis is created during the independent learning experience in the degree program.

Equipment Fee
0 Total Credits

- Students in the Emerging Media MFA program pay a $90 equipment fee each semester that they are enrolled.

Independent Learning
0 Total Credits

- A thesis is required.

Grand Total Credits: 60
Track Details
Course Schedule
The Emerging Media MFA - Animation and Visual Effects track is a full-time, three-year cohort program that requires students to abide by the following course sequence. Students must remain with their cohort in order to remain in good academic standing and graduate.

Year 1
Fall: 12 Credit Hours
- DIG 5439C - Script and Story Development for Animation and Visual Effects 3 Credit Hours
- DIG 5865 - The History of Animation and Visual Effects 3 Credit Hours
- DIG 5386C - Animation and Visual Effects Production I 3 Credit Hours
- FIL 5800 - Research Methods in Film and Digital Media 3 Credit Hours

Spring: 12 Credit Hours
- DIG 5366C - Animation and Visual Effects Production II 3 Credit Hours
- DIG 5387C - Visual Development and Design for Animation and Visual Effects 3 Credit Hours
- DIG 5378C - Editing for Animation and Visual Effects I: Theory and Production 3 Credit Hours
- DIG 5385C - Visual Effects for Animation and Live Action I 3 Credit Hours

Year 2
Fall: 9 Credit Hours
- DIG 6379C - Editing for Animation and Visual Effects II: Practical Editing 3 Credit Hours
- DIG 6388C - Animation and Visual Effects Production III 3 Credit Hours
- DIG 6384C - Directing for Animation and Visual Effects 3 Credit Hours

Spring: 9 Credit Hours
- DIG 6389C - Animation and Visual Effects Production IV 3 Credit Hours
- DIG 6377C - Visual Effects for Animation and Live Action II 3 Credit Hours
- DIG 6365C - Media and Music for Animation and Visual Effects 3 Credit Hours

Year 3
Fall: 9 Credit Hours
- DIG 6866C - Technical Problem Solving for Animation and Visual Effects 3 Credit Hours
- DIG 6971 - Thesis 6 Credit Hours

Spring: 9 Credit Hours
- FIL 6619 - Guerilla Marketing and Models of Distribution 3 Credit Hours
- DIG 6971 - Thesis 6 Credit Hours

Financial Information
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Telephone: 407-823-2827
Appointment Line: 407-823-5285
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finaid@ucf.edu
http://finaid.ucf.edu

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Emerging Media MFA - Emerging Media MFA, Studio Art and Design Track
College
College of Arts and Humanities

Department
School of Visual Arts and Design

Track Website
https://svad.cah.ucf.edu/program/studio-art-mfa/

Track Handbook
Emerging Media MFA, Studio Art and Design Track

Track Contact Information
Jason Burrell
jason.burrell@ucf.edu
Telephone: 407-362-8460
Visual Arts Building (VAB) 117

Is this track available 100% online?
No

Track Description
The Studio Art and Design track of the MFA in Emerging Media, provides students an opportunity to inform and enhance their artistic practice using 21st Century electronic media.

This emphasis on electronic media is pliable enough to encompass the many ways in which technology intersects with contemporary art and design.

Students in the program are invited to combine their backgrounds in traditional art or computer-related disciplines within a conceptually driven, interdisciplinary environment. Courses provide exposure to time-based media, performance art, video art, sound works, kinetic sculpture, computer-based art, and art using the Internet in order to understand how these forms are driving 21st century artistic practice and informing our understanding of contemporary cultural identities.

The Studio Art and Design MFA track is composed of a minimum of 60 credit hours, to be acquired in three years (six full-time semesters excluding summers). Degree credit is obtained in theory courses, studio art courses, electives, and supervised research. All courses must be approved by the Graduate Program Director. The thesis consists of a body of artistic work accompanied by electronic (Internet) documentation and a culminating exhibition.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Bachelor's Degree

Graduate students must maintain a 3.0 or better GPA in all course work to complete the program. Continuation in the MFA program requires a positive annual evaluation by the Program Director of the School of Visual Arts and Design and by the Graduate Committee of the School of Visual Arts and Design.

Track Prerequisites
Applicants to the MFA program normally must hold an earned BFA degree in Visual Art from an accredited institution recognized by UCF. Applicants who hold an earned BA, BS, or other baccalaureate degree in Visual Art or a related discipline from an accredited university may also apply.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants to the MFA program normally must hold an earned BFA degree in Visual Art from a regionally accredited institution. Applicants who hold an earned BA, BS, or other baccalaureate degree in Visual Art or a related discipline from an accredited university may also apply.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- A letter of research intent that is at least a page describing the applicant's creative background, proposed research interests, and the relationship between this program and the applicant's future goals. Research in the context of the MFA program primarily means the full-time creation of an original body of art work over the course of three years of residence.
- Two letters of recommendation preferably from former visual art professors.
- A computer-based score of 230 (or 89 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Portfolio of original creative works
  - 20 jpeg images total (1000 pixels longest dimension - 72 dpi) or a 3-minute demo reel for animation portfolios. Please abide by these guidelines.
  - The total portfolio file size must no larger than 2.5 MB. If you are submitting a video file that is larger than 2.5 MB please upload the video to YouTube or Vimeo and provide the link in this section of the application. View YouTube uploading instructions here: http://www.google.com/support/youtube/bin/answer.py?hl=en&answer=57924. When uploading the video, please title the submission with your full name, and select "unlisted" as your Privacy choice.
  - Please upload a document with the link to your portfolio to the application. The link can be from You Tube, Vimeo, Dropbox, Google Drive, etc. You may also upload your PDF portfolio directly to the application or submit it via email to svadadvising@ucf.edu.

Meeting minimum UCF admission criteria does not guarantee admission to the MFA program. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, the applicant's potential for completing the degree, and the current applicant pool. A strong emphasis is placed on the review of the portfolio of original creative work and the letter of research intent.

Graduate Application Deadlines

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<tr>
<th>Studio Art and the Computer</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

2021-2022 Graduate Catalog
**Degree Requirements**

**Required Courses**

24 Total Credits

- Complete all of the following
  - Complete the following:
    - ARH5897 - Advanced Seminar in Art History (3)
    - ART6687 - Research Concentration (3)
  - Earn at least 12 credits from the following types of courses:
    - ART 6911C - Studio Concentration 3 Credit Hours Should be taken 4 times for a total of 12 credit hours.
  - Earn at least 6 credits from the following types of courses:
    - ART 6930 - Graduate Seminar 1 Credit Hours Should be taken 6 times for a total of 6 credit hours.

**Elective Courses**

18 Total Credits

- Complete all of the following
  - Students should choose from graduate level courses within the School of Visual Arts & Design that are not already required for their program. These courses included those with the following prefixes: ARH, ART, GRA, and PGY. If approved by the Graduate Program Director, there are many graduate-level courses in the College of Arts and Humanities that can be used as electives in addition to other graduate courses. These courses must be selected so as to ensure that at least one-half of the courses in the student’s plan of study are taken at the 6000 level. Normally, at least half of the selected electives should be taken within the School of Visual Arts and Design.

  **Restricted Electives - 9 Credit Hours**
  - Complete at least 3 of the following:
    - ART5280 - Serial Content (3)
    - ART5284 - Design Theory and Methods (3)
    - ART5696 - Art, Design and Human Interactions (3)
    - ART5811 - The Professional Practice of Art (3)
    - ART6683 - Time Arts (3)

  **Unrestricted Electives - 9 Credit Hours**
  - Earn at least 9 credits from the following types of courses:
    - Graduate students enroll in three graduate ART/ARH/GRA/PGY split-level courses (graduate courses stacked with corresponding undergraduate courses). The graduate level syllabus distinctly highlights the increased research, production and evaluative criteria.

**Thesis**

18 Total Credits

- Earn at least 18 credits from the following types of courses:
  - ART 6971 - Thesis 18 Credit Hours The thesis consists of a body of artistic work accompanied by electronic (Internet) documentation and a culminating exhibition. The final oral review before the supervisory thesis committee occurs at the end of the sixth semester. At the same time, the graduate student presents a thesis exhibition of selected works from the cumulative body of works produced during his/her three years of residency. In addition, the thesis requires an artist's statement and documentation. The thesis will contain research intentions, results, and the body of the creative works produced. Students are required to submit an electronic version of the thesis to the UCF College of Graduate Studies. After approval by the UCF College of Graduate Studies, the UCF Library will add it to its archives and make the electronic version of the thesis accessible on the web. The required thesis is the independent learning experience in the degree program.

**Equipment Fee**

0 Total Credits

- Students in the Emerging Media MFA program pay a $90 equipment fee each semester that they are enrolled.

**Independent Learning**

0 Total Credits

- A thesis is required.

**Grand Total Credits: 60**
Track Details

Course Schedule

The Emerging Media MFA is a full-time 3-year cohort program that requires students to abide by the following course sequence. Students must remain with their cohort in order to remain in good academic standing and graduate.

Year 1

Fall: 10 Credit Hours
- ARH 5897 - Advanced Seminar in Art History **3 Credit Hours**
- ART 6911C - Studio Concentration **3 Credit Hours**
- ART 6930 - Graduate Seminar **1 Credit Hours**
- Restrictive Elective: **3 Credit Hours**

Spring: 10 Credit Hours
- ART 6911C - Studio Concentration **3 Credit Hours**
- ART 6930 - Graduate Seminar **1 Credit Hours**
- Restricted Elective: **3 Credit Hours**
- ART/ARH/GRA/PGY 5000-Level Unrestricted Elective: **3 Credit Hours**

Year 2

Fall: 10 Credit Hours
- ART 6911C - Studio Concentration **3 Credit Hours**
- ART 6930 - Graduate Seminar **1 Credit Hours**
- Restricted Elective: **3 Credit Hours**
- ART/ARH/GRA/PGY 5000-Level Unrestricted Elective: **3 Credit Hours**

Spring: 10 Credit Hours
- ART 6687 - Research Concentration **3 Credit Hours**
- ART 6911C - Studio Concentration **3 Credit Hours**
- ART 6930 - Graduate Seminar **1 Credit Hours**
- ART/ARH/GRA/PGY 5000-Level Unrestricted Elective: **3 Credit Hours**

Year 3

Fall: 10 Credit Hours
- ART 6930 - Graduate Seminar **1 Credit Hours**
- ART 6971 - Thesis **9 Credit Hours**

Spring: 10 Credit Hours
- ART 6930 - Graduate Seminar **1 Credit Hours**
- ART 6971 - Thesis **9 Credit Hours**

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

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Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu
English MA

College
College of Arts and Humanities

Department
Department of English

Program Website
http://english.cah.ucf.edu/

Program Handbook
English MA

Program Contact Information
Terry Ann Thaxton MFA
Professor
Terry.Thaxton@ucf.edu
Telephone: 407-823-2112
Trevor Colbourn Hall (TCH) 251

Ethan Watford
ethan.watford@ucf.edu
Telephone: 407-823-5329
Trevor Colbourn Hall (TCH) 251E

Is this program available 100% online?
No

Program Description
The Master of Arts in English program offers two tracks: Literary, Cultural, and Textual Studies, and Technical Communication. The program is designed for students interested in intellectual and practical questions of aesthetics, critique, culture, text, and interpretation.

Please scroll to the bottom of this page for further details on these Tracks.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Tracks may have different requirements.

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gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

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**Grad Fellowships**

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gradfellowship@ucf.edu  
https://funding.graduate.ucf.edu

**English MA - English MA, Literary, Cultural, and Textual Studies Track**

**College**

College of Arts and Humanities

**Department**

Department of English

**Track Website**

https://english.cah.ucf.edu/graduate-lct/

**Track Handbook**

English MA, Literary, Cultural, and Textual Studies Track

**Track Contact Information**

**Terry Ann Thaxton MFA**  
Professor  
Terry.Thaxton@ucf.edu  
Telephone: 407-823-2112  
Trevor Colbourn Hall (TCH) 251

**Ethan Watford**  
ethan.watford@ucf.edu  
Telephone: 407-823-5329  
Trevor Colbourn Hall (TCH) 251E

**Is this track available 100% online?**

No
Track Description

The Literary, Cultural and Textual Studies track in the Master of Arts in English program prepares students for both academic and nonacademic careers.

The program encourages students to make connections among texts (critical, theoretical, scholarly, literary, etc.), to engage in research and critical thinking at an advanced level, and to write scholarship of merit and distinction.

Each student must complete at least 33 credit hours, including three core courses. Near the end of the degree program, each candidate must complete a Capstone Course and choose either the thesis option or the nonthesis option, which requires 3 additional credit hours of a 6000-level Literary, Cultural and Textual Studies course.

The program teaches research methods in one or more courses and requires a research study and final report focusing on literary criticism in a student's particular specialization.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

A bachelor's degree in English or its equivalent.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the Admissions, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in English or its equivalent.
- The GRE is not required for admission to this program.
- Two letters of recommendation from faculty members or others familiar with applicant's academic potential.
- A one to two-page goal statement (300-1000 words) providing a narrative of your educational progress and how a Master's degree fits into this trajectory. In other words, tell us where you have been, where you are, and where you wish to go.
- A researched literary analysis or equivalent essay of approximately ten pages, with an explanatory cover memo of no more than one page that explains why you chose to submit this particular academic essay and how you would revise if you had the opportunity. All statements and essays should be revised writing (i.e., not written under timed conditions). Writing should be "cleaned": typed, error-free, with no teacher comments. The essay should demonstrate an ability to follow a scholarly format such as MLA or APA.
- A résumé is required for applicants seeking assistantship positions.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
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Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Required Courses**

9 Total Credits

- Complete all of the following
  - Core - 6 Hours
    - Complete the following:
      - ENG5009 - Methods of Bibliography and Research (3)
      - ENG6078 - Contemporary Movements in Literary, Cultural, and Textual Theory (3)

- Capstone - 3 Hours
  - Complete all of the following
    - Complete the following:
      - ENG6950 - Capstone Course (3)

  Students must take a Capstone Course after completing at least 18 credit hours in the program. The Capstone Course is a systematic and comprehensive revision of previous graduate research, with special attention to the use of theory and to professionalization and with the goal of publication and/or conference presentation.

**Foreign Language Proficiency**

0 Total Credits

- Students must also prove proficiency in a foreign language at the first-year level prior to completing the degree program.

**Elective Courses**

21 Total Credits

- Complete all of the following
  - Restricted - 15 Hours
    - Complete all of the following
      - Complete at least 5 of the following:
        - ENG6074 - Historical Movements in Literary, Cultural, and Textual Studies (3)
        - LIT6216 - Issues in Literary Study (3)
        - LIT6936 - Studies in Literary, Cultural, and Textual Theory (3)
        - LIT6276 - Teaching College Literature (3)
        - LIN5137 - Linguistics (3)
        - TSL6250 - Applied Linguistics in ESOL (3)

  - LIT 6216 and/or LIT 6936 can be taken four times for credit when course content is different.

- Unrestricted - 6 Hours
  - Earn at least 6 credits from the following types of courses:
    - In consultation with the graduate adviser, students will choose two graduate-level English courses.

**Thesis/Nonthesis Option**

3 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 3 credits from the following types of courses:
      - Students will complete a formal thesis on a topic selected in consultation with an advisory committee and will meet both departmental and university requirements for the thesis. LIT 6971 Thesis 3 Credit Hours
  - Nonthesis Option
    - Earn at least 3 credits from the following types of courses:
      - Students will complete 3 additional hours of 6000-level Literary, Cultural, and Textual Studies courses. Elective 3 Credit Hours

**Independent Learning**

0 Total Credits

- All courses in the Master's in English, Literary, Cultural and Textual Studies Track require students to complete substantial independent research projects and thus provide students the opportunity to engage in independent learning.

**Grand Total Credits:** 33

2021-2022 Graduate Catalog
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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English MA - English MA, Technical Communication Track

College
College of Arts and Humanities

Department
Department of English

Track Website
https://english.cah.ucf.edu/graduate-tech-comm/

Track Handbook
English MA, Technical Communication Track

Track Contact Information

Terry Ann Thaxton MFA
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Telephone: 407-823-2112
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Ethan Watford
ethan.watford@ucf.edu
Telephone: 407-823-5329
Trevor Colbourn Hall (TCH) 251E

Is this track available 100% online?
Yes

UCF Online

Please note: English (MA) - Technical Communication may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
**Track Description**

The Technical Communication track in the Master of Arts in English program is completely online and provides students with theoretical and applied skills in such areas as technical writing, visual design, usability, ethics, stylistics, computer documentation, international communication, and the rhetoric of science.

Students in this program come from a variety of educational backgrounds such as Psychology, Computer Science, and English. The program's faculty members have won prestigious awards, are well published in the field, and have considerable experience in teaching online courses.

Our graduates hold a variety of jobs in the central Florida region; they have found work as technical writers, technical editors, information designers, web designers, corporate trainers, consultants, information developers, educators, documentation specialists, or have other communication-related jobs.

Each student must complete at least 33 credit hours of coursework including 15 credit hours of required courses and 15 credit hours of elective courses. Near the end of the degree program, each candidate will take a comprehensive examination and complete a thesis option, a nonthesis option with a research project approved by the faculty, or a nonthesis option consisting of an additional 6000-level three-credit-hour Technical Communication course taught by the Department of English.

**Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree**

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the Admissions section, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Two letters of recommendation from faculty members or others familiar with applicant's academic potential.
- One year of a foreign language at the university level (may be taken while in graduate residence).
- A Statement of Background and Goals of 600-1000 words.
  
  The goal statement should provide a narrative of your progress and how a Master's degree in Technical Communication fits into this trajectory. In other words, tell us where you have been, where you are, and where you wish to go. It is also very important that you demonstrate some knowledge of what Technical Communication is; the most common reason for otherwise solid applications to be turned down is the lack of knowledge of what Technical Communication is and how it fits into your plans.

To begin writing your goal statement, review the MA in Technical Communication on the Department of English’s web site. You might look at the kinds of courses that are offered in the MA program or what the members of the faculty have specialized in. What interests you in the program? How will it help you in your career? You don't have to know everything about every course or faculty member. You do not have to have a deep understanding of every industry, non-profit, government, educational, medical, or scientific organization that you see yourself working in some day. A letter of application or personal goal statement is a document that lets the admissions committee know that you have some sense of what the program is about and that you have thought about this before applying. You can reach out to UCF faculty who teach in the program to see what they think.

- A Professional Writing Sample of approximately ten pages needs to accomplish two tasks. First, it functions as a sample of your ability to communicate well in prose. Second, it should demonstrate a capacity to think logically and to translate this thought into well-organized language. In many cases, the writing sample will have originally been created for an undergraduate class, but this is not a requirement. The writing sample can also be a professional document that you wrote by yourself.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- A résumé is required for applicants seeking assistantship positions.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

**Graduate Application Deadlines**

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Application Deadlines Notes

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TBD
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**Degree Requirements**

**Required Courses**

15 Total Credits

- Complete all of the following:
  - ENC6297 - Production and Publication Methods (3)
  - ENC6217 - Technical Editing (3)
  - ENC6261 - Technical Writing, Theory and Practice (3)
  - ENG5009 - Methods of Bibliography and Research (3)

- Choose one of the following:
  - ENC6338 - The Rhetorics of Public Debate (3)
  - LIT6435 - Rhetoric of Science (3)

**Elective Courses**

15 Total Credits

- Complete all of the following
  - Restricted - 9 Hours
    - Complete at least 3 of the following:
      - ENC6257 - Visual Technical Communication (3)
      - ENC6306 - Persuasive Writing (3)
      - ENC6247 - Proposal Writing (3)
      - ENC6292 - Project Management for Technical Writers (3)
      - ENC6296 - Interactive Design in Technical Communication (3)
      - ENC6338 - The Rhetorics of Public Debate (3)
      - ENC6425 - Hypertext Theory and Design (3)
      - ENC6335 - Rhetorical Traditions (3)
      - LIN5675 - English Grammar and Usage (3)
      - LIT6435 - Rhetoric of Science (3)

  - Unrestricted - 6 Hours
    - Earn at least 6 credits from the following types of courses:
      - Students in consultation with the graduate adviser will choose two graduate-level English courses or approved courses from outside the department.

- Thesis/Nonthesis Options

3 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 3 credits from the following types of courses:
      - Students complete a formal thesis written in consultation with an advisory committee and will meet both departmental and university requirements for the thesis. ENC 6971 Thesis (3 credit hours)
  - Nonthesis Option
    - Earn at least 3 credits from the following types of courses:
      - Students will enroll in directed research and complete a research project approved by an advisory committee. This project will be on a topic in technical communication and in a format other than that of a traditional thesis. ENC 6918 Directed Research (3 credit hours) Or, students will enroll in an additional 6000-level course in technical communication taught by the Department of English.

**Comprehensive Examinations**

0 Total Credits

- The comprehensive examination is a written exam based on four of the core courses (excluding ENG 5009).

**Independent Learning**

0 Total Credits

- Both the thesis and special project options of the Master's in English, Technical Communication Track require students to conduct original research and to produce a final paper detailing the subject, purpose, scope, methodology, and conclusions of the study, thus providing students the opportunity to engage in independent learning.

Grand Total Credits: **33**
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

English, Rhetoric and Composition MA

College

College of Arts and Humanities

Department

Department of Writing and Rhetoric

Program Website

https://writingandrhetoric.cah.ucf.edu/rhetoric-and-composition-ma/

Program Handbook

English, Rhetoric and Composition MA

Program Contact Information

Sherry Rankins-Robertson, PhD
Sherry.Robertson@ucf.edu
Telephone: 407-823-2295
Trevor Colbourn Hall (TCH) 165H

Is this program available 100% online?

No
Program Description

The Rhetoric and Composition Master of Arts track prepares students for teaching college-level writing, for continuing to a PhD program in rhetoric and composition, and for working in public and professional situations that call for effective persuasion and communication.

The program prepares students to engage in technologically adept, theory-based writing research and pedagogy. The program emphasizes rhetorical, writing, and literacy traditions and theories, particularly as they relate to the teaching of writing. This degree is ideal preparation for teaching college-level writing, for continuing to a PhD program in rhetoric and composition, and for working in public and professional situations that call for effective persuasion and communication.

Upon completion of this program, students receive a Master of Arts in English diploma and their transcript shows both Master of Arts in English and Rhetoric and Composition track.

Each student must complete at least 33 credit hours, including 15 credit hours of required courses, 15 credit hours of elective courses, and 3 hours of thesis/non-thesis hours. Before beginning thesis/non-thesis hours, the student will develop and get approved an annotated bibliography related to their proposed thesis or non-thesis topic.

The program requires that students complete a thesis or non-thesis project approved by the graduate faculty that contributes to some aspect of rhetorical, writing, and/or literacy studies.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

A bachelor's degree in English, Rhetoric, and Composition, Writing Studies, Communication Studies, or related discipline. Or a completed bachelors degree with substantial coursework in one of the aforementioned areas.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the Admissions section, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in English, Rhetoric, and Composition, Writing Studies, Communication Studies, or related discipline. Or a completed bachelors degree with substantial coursework in one of the aforementioned areas.
- The GRE is not required for admission to this program.
- Two letters of recommendation from faculty members or others familiar with applicant's academic potential.
- One year of a foreign language at the university level (may be taken while in graduate residence).
- A one to two-page goal statement addressing the applicant's reasons for pursuing graduate study in Rhetoric and Composition.
- A writing sample that demonstrates an ability to analyze and argue, approximately ten pages. Writing should be "clean": typed, error-free, with no teacher comments. The academic essay should demonstrate an ability to follow a scholarly documentation format such as MLA or APA.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- A résumé or cv is required for applicants seeking assistantship positions.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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<thead>
<tr>
<th>English MA, Rhetoric and Composition</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
15 Total Credits

- Complete the following:
  - ENC5703 - Composition Histories and Theories (3)
  - ENC5920 - Colloquium in Rhetoric and Composition (3)
  - ENC6335 - Rhetorical Traditions (3)
  - ENC6712 - Studies in Literacy and Writing (3)
  - ENC6720 - Research Methods in Rhetoric and Composition (3)

Elective Courses
15 Total Credits

- Complete all of the following
  - Restricted - 9 Hours
    - Complete all of the following
      - Complete at least 3 of the following:
        - ENC5237 - Writing for the Business Professional (3)
        - ENC5276 - Theory and Practice of Tutoring Writing (3)
        - ENC5337 - Rhetorical Theory (3)
        - ENC5705 - Approaches to Teaching College Composition (3)
        - ENC6421 - Digital Rhetorics (3)
        - ENC6428 - Digital Literacies (3)
        - ENC6247 - Proposal Writing (3)
        - ENC6306 - Persuasive Writing (3)
        - ENC6332 - Gendered Rhetoric (3)
        - ENC6333 - Contemporary Rhetoric and Composition Theory (3)
        - ENC6338 - The Rhetorics of Public Debate (3)
        - ENC6339 - Rhetorical Movements (3)
        - ENC6701 - Professional Writing Studies (3)
        - ENC6740 - Topics in Rhetoric and Composition (3)
        - ENC6945 - Community Literacy Practicum (3)
        - LIN5137 - Linguistics (3)
        - LIN5675 - English Grammar and Usage (3)
        - LIT6435 - Rhetoric of Science (3)
    - ENC 5705 - Approaches to Teaching College Composition Note: Graduate Teaching Associates are required to enroll in this course before they become instructors of record.
    - ENC 6740 - Topics in Rhetoric and Composition Note: This course may be used in the degree program a maximum of 2 times when course content is different.
  - Unrestricted - 6 Hours
  - Earn at least 6 credits from the following types of courses:
    - Students will work with an adviser to choose two other graduate-level Writing and Rhetoric courses or approved courses outside the department (e.g., English, Texts & Technology, History).

Thesis/Non-Thesis Option
3 Total Credits

- Complete 1 of the following
  - Thesis
    - Earn at least 3 credits from the following types of courses:
      ENC 6971 - Thesis 3 Credit Hours Students complete a formal thesis on a topic selected in consultation with an advisory committee and will meet both departmental and university requirements for the thesis.
  - Non-thesis
    - Complete all of the following
      - Earn at least 3 credits from the following:
        - ENC6918 - Directed Research (1 - 99)
      - Students complete either an essay intended for publication or a portfolio representative of their work in the program.

Annotated Bibliography
0 Total Credits

- The annotated bibliography should consist of at least 15 sources relevant to the student’s thesis. It must be completed before the thesis and approved by the program director in consultation with the student’s planned advisory committee. Annotations should indicate how the student might use the sources in the thesis.

Grand Total Credits: 33
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu
http://finaid.ucf.edu

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Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
graduate.ucf.edu/funding/

Ethics, Theoretical and Applied Graduate Certificate

College
College of Arts and Humanities

Department
Department of Philosophy

Program Website
http://philosophy.cah.ucf.edu/program/ethics-grad-certificate/

Program Contact Information

Jonathan Beever PhD
jonathan.beever@ucf.edu
Telephone: 407-823-4340
Psychology Building (PSY) 238

Is this program available 100% online?
Yes

UCF Online

Please note: Theoretical and Applied Ethics Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
**Program Description**

Students in the Graduate Certificate in Theoretical and Applied Ethics program develop ethics literacy by applying ethical theories and principles to complex contemporary situations, connecting individual and professional interests to ethical engagement, and developing analytic writing and speaking skills related to ethical inquiry.

This interdisciplinary graduate certificate provides spaces for interdisciplinary engagement on contemporary topics of ethical inquiry across philosophy, the humanities, the sciences, health care, business, education, criminal justice, public administration, public relations, journalism, politics and other areas. Students will regularly engage peers and faculty across these disciplinary boundaries, broadening their capacity for ethical decision-making and cultivating skills that can be applied in their professional and civic lives.

Students may choose to specialize in some specific academic discipline or tailor their own areas of concentration relevant to their backgrounds and interests.

All elective courses have been approved for inclusion by the chair or director of the relevant program. However, students will need to work with the program director to obtain the consent of the course instructor to enroll in electives.

**Program Prerequisites**

Relevant experience with theoretical and applied ethics through course work at the undergraduate or graduate level or through professional experience working with ethical issues will be evaluated by the graduate program director.

**Application Requirements**

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Relevant experience with theoretical and applied ethics through course work at the undergraduate or graduate level or through professional experience working with ethical issues will be evaluated by the graduate program director together with the certificate committee comprised of faculty from the participating departments. Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant’s abilities, past performance and the applicant's potential for completing the certificate.

**Graduate Application Deadlines**

<table>
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<th>Ethics Graduate Certificate, Theoretical and Applied</th>
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**Graduate School Contact**

TBD

gradadmissions@ucf.edu

Telephone: 407-823-2766

Millican Hall 230

Online Application

Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies

Millican Hall 230

PO Box 160112

Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233

GMAT: RZT-HT-58

TOEFL: 5233

ETS PPI: 5233
Degree Requirements

Required Courses
6 Total Credits

- Complete the following:
  - PHI5627 - Theoretical and Applied Ethics (3)
  - PHI5665 - Knowledge, Responsibility, and Society (3)

Elective Courses
6 Total Credits

- Earn at least 6 credits from the following:
  - ACG6835 - Ethics and Professionalism in Accounting and Auditing (3)
  - ADV6209 - Advertising and Society (3)
  - ANG6003 - Ethics in Anthropology (3)
  - BUL6444 - Law and Ethics (3)
  - CCJ5456 - The Administration of Justice (3)
  - CCJ6431 - Leadership and Ethics in Criminal Justice (3)
  - CCJ6485 - Issues in Justice Policy (3)
  - CJ5020 - Foundations of Corrections (3)
  - CJE5021 - Foundations of Law Enforcement (3)
  - CJ6568 - Law and Social Control (3)
  - CLP6932 - Ethical and Professional Issues in Mental Health Practices (3)
  - CLP7623 - Ethical and Professional Issues in Clinical Psychology (3)
  - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
  - EDH6407 - Ethical and Legal Issues in Student Personnel (3)
  - HSA6555 - Health Care Ethics and Law (4)
  - IDC6600 - Emerging Cyber Issues (3)
  - MAN6066 - Ethical Leadership (3)
  - MHS6702 - Ethical and Legal Issues (3)
  - MMC6202 - Legal and Ethical Issues for Communication (3)
  - PAD5041 - Ethics and Values in Public Administration (3)
  - PET5495 - Critical Issues: Ethics in Coaching and Sport (3)
  - PHI5634 - Medical Ethics (3)
  - PHI5687 - Ethics in Science and Technology (3)
  - PHI5697 - Neuroethics (3)
  - PHI6679 - Digital Ethics (3)
  - PHM5035 - Environmental Philosophy (3)
  - POT6007 - Seminar in Political Theory (3)
  - SPB6506 - Moral and Ethical Issues in Sport (1.5)
  - WST5347 - Research in Women and Gender Studies (3)

Grand Total Credits: 12

Gender Studies Graduate Certificate

College
College of Arts and Humanities

Department
Program in Women’s and Gender Studies

Program Website
http://wgst.cah.ucf.edu

Program Contact Information
M.C. Santana PhD
santana@ucf.edu
Telephone: 407-823-2269
Trevor Colbourn Hall (TCH) 348

Is this program available 100% online?
Yes
UCF Online

Please note: Gender Studies Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Gender Studies provides skills for practical application of gender theories and research in the workforce to advance leadership and participation, economic empowerment, policy and planning, multi-modal digital literacies, and cross-cultural communication in order to promote gender equality.

The Gender Studies certificate includes courses from both the humanities and the social sciences. The program is open to both degree-seeking and nondegree seeking graduate students. Most courses are offered at times that will accommodate part-time and working students. Students should consult with the instructor since entry to some graduate courses is restricted by registration codes from the department.

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Graduate Application Deadlines

<table>
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<th>Gender Studies Graduate Certificate</th>
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Graduate School Contact

Mike Burke
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
6 Total Credits

- Complete the following:
  - WST5601 - Theories in Gender Studies (3)
  - WST5347 - Research in Women and Gender Studies (3)

Elective Courses
6 Total Credits

- Earn at least 6 credits from the following:
  - ARH5897 - Advanced Seminar in Art History (3)
  - CLP6459C - Human Sexuality, Marriage, and Sex Therapies (3)
  - ENC6332 - Gendered Rhetoric (3)
  - ENG6814 - Gender in Texts and Technology (3)
  - PUP6324 - Women and Public Policy (3)
  - SYD6809 - Seminar in Gender Issues (3)
  - SY5566 - Seminar on Domestic Violence: Theory, Research and Social Policy (3)
  - ACG6519 - Governmental and Nonprofit Accounting (3)
  - CJ6067 - Perspectives on Genocide (3)
  - CCJ6366 - Criminal Justice Responses to Domestic Violence (3)
  - COM6047 - Interpersonal Support in the Workplace (3)
  - COM6468 - Communication and Conflict (3)
  - CPO6058 - Revolution and Political Violence (3)
  - Course Not Found
  - ENC5237 - Writing for the Business Professional (3)
  - EGE6115 - Entrepreneurship (3)
  - GED5007 - Women and Healthy Aging (3)
  - HMG6797 - Event Administration (3)
  - PAD6035 - Public Administration in the Policy Process (3)
  - WST5108 - Global Women in Crisis (3)
  - HSS926 - Colloquium: History of Women and Gender (3)
  - SYP6561 - Child Abuse in Society (3)
  - SYP6563 - Reactions to Domestic Violence (3)
  - EN6076 - Contemporary Movements in Literary, Cultural, and Textual Theory (3)
  - ENG6074 - Historical Movements in Literary, Cultural, and Textual Studies (3)
  - LIT6097 - Studies in Contemporary Fiction (3)
  - LIT6216 - Issues in Literary Study (3)
  - LIT6936 - Studies in Literary, Cultural, and Textual Theory (3)

Grand Total Credits: 12

Program Details

Entry to CLP 6459C and ENG 6814 may be restricted. Consult with the instructor.

NOTE

- SYP 6561 - Child Abuse in Society 3 Credit Hours *
- SYP 6563 - Reactions to Domestic Violence 3 Credit Hours *

* Students may include only one of these courses (marked with an asterisk) toward meeting the certificate requirements.

- ENG 6078 - Contemporary Movements in Literary, Cultural, and Textual Theory 3 Credit Hours **
- ENG 6074 - Historical Movements in Literary, Cultural, and Textual Studies 3 Credit Hours **
- LIT 6097 - Studies in Contemporary Fiction 3 Credit Hours **
- LIT 6216 - Issues in Literary Study 3 Credit Hours **
- LIT 6936 - Studies in Literary, Cultural, and Textual Theory 3 Credit Hours **

** Students must seek the approval of the Director of Women's and Gender Studies, which is based on the review of course syllabi, for these courses (marked with a double asterisk).
Program Website
http://history.cah.ucf.edu/academics/graduate-programs/

Program Handbook
History MA

Program Contact Information
Amy E. Foster, PhD
Associate Professor and Director of Graduate Programs
Amy.Foster@ucf.edu
Telephone: 407-823-2225
Trevor Colbourn Hall (TCH) 317C

Is this program available 100% online?
No

Program Description
The Master of Arts in History is designed to serve the needs of a variety of students, including those who plan to pursue a PhD, those wishing to improve their proficiency as secondary school teachers, and those who seek to enrich their intellectual lives. In addition to the General MA program, Public History and Accelerated Undergraduate to Graduate tracks are offered.

Please scroll to the bottom of this page for further details on these Tracks.

Students are served by departmental members whose areas of research include classical history, early Christianity, African history, American cultural and social history, local history, the South, the American Civil War, the American frontier, women and gender roles, Asian history, Middle-Eastern history, twentieth-century mass movements, Nazism and anti-Semitism in Central Europe, Latin American history, and European history, as well as other areas.

Program Prerequisites
A bachelor's degree in History (or an equivalent).
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in History (or an equivalent).
- The GRE is not required for admission to this program.
- A 3.25 GPA in all upper-division history courses taken as an undergraduate student.
- A Statement of Purpose (maximum of two pages) describing personal goals and objectives in seeking a graduate degree in history.
- Three letters of recommendation from former professors who can address the applicant's ability to undertake graduate-level history courses.
- A substantial academic writing sample between 2000 and 5000 words illustrating the applicant's ability to engage in historical research and analysis. Acceptable writing samples may include a chapter from an honors thesis, a conference paper, or a term paper.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applications who hold an undergraduate degree in History but do not have a GPA of 3.0 in all work attempted while registered as an undergraduate student, or while registered as an upper-division undergraduate student (normally based on the last sixty attempted semester hours), or a 3.25 GPA in their upper-division history courses may take up to 9 hours of graduate courses as non-degree-seeking students. To be admitted into the graduate program, however, they must earn a 3.3 GPA or higher in the graduate-level history courses they take under this status.

Generally, applicants who meet all of the above requirements but do not have an undergraduate degree in History must complete 12 hours of history course work at the 3000 and 4000 level, with a 3.25 GPA in these courses, before entering the graduate program. These courses will not count toward the graduate degree. The History Department Graduate Committee can waive this requirement, in whole or in part, when applicants present evidence that they are capable of successfully completing graduate history courses.

If, in addition, applicants do not meet one of the other requirements for entry, such as a GPA of 3.0 in all work attempted while registered as an undergraduate student, or while registered as an upper-division undergraduate student (normally based on the last sixty attempted semester hours), they must complete 12 hours of course work at the 3000 and 4000 level with GPA of 3.5 before they can be admitted to the graduate program.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

TBD
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Telephone: 407-823-2766
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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses (Core)
6 Total Credits

- Complete the following:
  - HIS6159 - Historiography (3)
  - HIS6905 - History Capstone Class (3)

Required Courses (Specialization)
18 Total Credits

- Complete 1 of the following
  - Students may specialize in one of the two areas below. Specialization courses must be approved by the student's adviser.
    - Eastern Hemisphere: African, Asian, European, or Middle Eastern - 18 Credit Hours
    - Complete at least 6 of the following:
      - AFH5259 - Colloquium in African History (3)
      - AFHS806 - The Historiography of Slavery in Africa (3)
      - ASH5229 - History of the Middle East (3)
      - ASH5408 - Colloquium in Modern China (3)
      - ASH5485 - U.S. China Relations (3)
      - ASH5925 - Colloquium in South Asian History (3)
      - ASH6936 - Seminar in US-China Relations (3)
      - EUH5419 - Colloquium in Roman History (3)
      - EUH5546 - Colloquium: British History (3)
      - EUH5579 - Colloquium in Soviet Russia (3)
      - EUH5905 - European Imperialism (3)
      - EUH5925 - Colloquium in Medieval Europe (3)
      - EUHS208 - Colloquium in Early Modern History (3)
      - EUH6939 - Seminar in European History (3)
      - EUH5459 - Colloquium in French History (3)
    - Western Hemisphere: Caribbean, North American, or South American- 18 Credit Hours
    - Complete at least 6 of the following:
      - AMH5116 - Colloquium in Early American History (3)
      - AMH5169 - Colloquium in the American Early Republic (3)
      - AMH5176 - Colloquium in Civil War and Reconstruction (3)
      - AMH5296 - Colloquium in 20th Century U.S. (3)
      - AMH5378 - History of Technology (3)
      - AMH5391 - Colloquium in U.S. Cultural History (3)
      - AMH5406 - Colloquium in American South (3)
      - AMH5636 - Colloquium in US Environmental History (3)
      - AMH5925 - Colloquium in US Military History (3)
      - AMH6346 - Seminar in the History of American Automation (3)
      - AMH5077 - Colloquium in Twentieth Century Tourism (3)
      - AMH6429 - Seminar in Community and Local History (3)
      - AMH6939 - Seminar in U.S. History (3)
      - HIS5067 - Introduction to Public History (3)
      - HIS5083 - Cultural Heritage Management (3)
      - HIS5925 - History in the Digital Age (3)
HIS6096 - Seminar in Historic Preservation (3)
HIS6165 - Digital Tools for Historians (3)
HIS6167 - Spatial History (3)
HIS5088 - Readings in Curation and Public History (3)
HIS6094 - Seminar in Curation and New Media (3)
LAH5920 - Colloquium in Latin American History (3)
HIS5926 - Colloquium: History of Women and Gender (3)
HIS6592 - Seminar in Oral History (3)

Elective Courses
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - Students will choose history courses outside their area of specialization.

Thesis
6 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following types of courses:
    - HIS 6971 - Thesis The culminating event of the program is a minimum of six credit hours at the 6000-level developing and sustaining a historical argument in writing according to the accepted professional and ethical standards of the discipline.
    - Defense
  - The final step in completing the thesis requirement is a one-hour oral defense before the thesis committee.

Comprehensive Examinations
0 Total Credits

- Each candidate for the Master of Arts in History must pass written examinations in two fields upon conclusion of regular course work and before beginning a thesis. These examinations must be taken and passed as part of the requirements for the capstone course. Students are provided two attempts at successfully passing the examinations. Each student will also submit a thesis prospectus and preliminary bibliography, which the three members of the student's thesis committee judge acceptable as the preliminary step to beginning the thesis. An oral defense of the written exams and the thesis prospectus and bibliography is also a requirement of the capstone course.

Foreign Language
0 Total Credits

- Students will also be expected to demonstrate a reading competency in one foreign language translation examination. The foreign language examination (FLE) must be completed one semester prior to the thesis defense. For detailed information on the History Foreign Language Exam requirement and process, please see the department's MA program guidebook.

Grand Total Credits: 36

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

History MA - History MA, Accelerated Graduate Program Track
College
College of Arts and Humanities

Department
Department of History

Track Website
http://history.cah.ucf.edu/academics/graduate-programs/

Track Handbook
History MA, Accelerated Graduate Program Track

Track Contact Information
Amy E. Foster, PhD
Associate Professor and Director of Graduate Programs
Amy.Foster@ucf.edu
Telephone: 407-823-2225
Trevor Colbourn Hall (TCH) 317C

Is this track available 100% online?
No

Track Description
The Accelerated Undergraduate/Graduate track in the History MA program allows highly qualified undergraduate majors in history to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate program. Participation will enable completion of the Bachelor of Arts and Master of Arts degrees in five instead of six years for students enrolled in full-time course work.

The History MA program requires a minimum of 36 credit hours beyond the bachelor's degree, including 12 credit hours of required courses, 18 credit hours in an area of concentration, and six credit hours of electives outside of the area of concentration. Students must pass a foreign language competency test, pass a written examination in two fields, and successfully complete and defend their thesis. No graduate credit is given for any grade lower than "B- ."

Track Prerequisites
The accelerated undergraduate/graduate program in history allows highly qualified UCF undergraduate majors in history to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the combined undergraduate and graduate program toward the end of their junior year or after 12 hours of upper-level history course work.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The accelerated undergraduate/graduate program in history allows highly qualified undergraduate majors in history to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the combined undergraduate and graduate program toward the end of their junior year or after 12 hours of upper-level history course work.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- A 3.5 GPA or higher in history courses.
- An essay indicating reasons for wishing to complete the combined bachelor's/master's program.
- Three letters of recommendation from the History Department faculty.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

Students will be formally admitted to the master's program following receipt of the bachelor's degree.
Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Accelerated Graduate Program in History</th>
<th>*Fall Priority</th>
<th>Fall</th>
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</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses (Core)
6 Total Credits

- Complete the following:
  - HIS6159 - Historiography (3)
  - HIS6905 - History Capstone Class (3)

Required Courses (Specialization)
18 Total Credits

- Complete 1 of the following
  - Students may specialize in one of the two areas below. Specialization courses must be approved by the student's adviser.

  **Eastern Hemisphere: African, Asian, European, or Middle Eastern - 18 Credit Hours**
  - Complete at least 6 of the following:
    - AFH5259 - Colloquium in African History (3)
    - AFH5806 - The Historiography of Slavery in Africa (3)
    - ASH5229 - History of the Middle East (3)
    - ASH5408 - Colloquium in Modern China (3)
    - ASH5485 - U.S. China Relations (3)
    - ASH5925 - Colloquium in South Asian History (3)
    - ASH6936 - Seminar in US-China Relations (3)
    - EUH5419 - Colloquium in Roman History (3)
    - EUH5459 - Colloquium in French History (3)
    - EUH5546 - Colloquium: British History (3)
    - EUH5579 - Colloquium in Soviet Russia (3)
    - EUH5905 - European Imperialism (3)
    - EUH5925 - Colloquium in Medieval Europe (3)
    - EUH5208 - Colloquium in Early Modern History (3)
    - EUH6939 - Seminar in European History (3)

  **Western Hemisphere: Caribbean, North American, or South American - 18 Credit Hours**
  - Complete at least 6 of the following:
    - AMH5116 - Colloquium in Early American History (3)
    - AMH5169 - Colloquium in the American Early Republic (3)
    - AMH5176 - Colloquium in Civil War and Reconstruction (3)
Elective Courses
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  Students will choose history courses outside their area of specialization.

Thesis
6 Total Credits

- Complete all of the following

  Hours
  - Earn at least 6 credits from the following types of courses:
    HIS 6971 - Thesis The culminating event of the program is a minimum of six credit hours at the 6000-level developing
    and sustaining a historical argument in writing according to the accepted professional and ethical standards of the
    discipline.
    Defense
  - The final step in completing the thesis requirement is a one-hour oral defense before the thesis committee.

Comprehensive Examinations
0 Total Credits

- Each candidate for the Master of Arts in History must pass written examinations in two fields upon conclusion of regular course
  work and before beginning a thesis. These examinations must be taken and passed as part of the requirements for the
  capstone course. Students are provided two attempts at successfully passing the examinations. Each student will also submit a
  thesis prospectus and preliminary bibliography, which the three members of the student's thesis committee judge acceptable
  as the preliminary step to beginning the thesis. An oral defense of the written exams and the thesis prospectus and
  bibliography is also a requirement of the capstone course.

Foreign Language
0 Total Credits

- Students will also be expected to demonstrate a reading competency in one foreign language translation examination. The
  foreign language examination (FLE) must be completed one semester prior to the thesis defense. For detailed information on
  the History Foreign Language Exam requirement and process, please see the department's MA program guidebook.

Grand Total Credits: 36
Track Details

**Additional Notes on the Accelerated Undergraduate and Graduate Program in History**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "B-" in each undergraduate and graduate history course for them to be counted toward the major.
- Students must compile a portfolio of their written work in history (completed inside and outside the classroom).
- Students admitted to the combined bachelor's/master's program may take one 5000-level course the first semester of their senior year.
- After successfully completing one 5000-level course, students will be eligible to take HIS 6159 - Historiography and another 5000-level course or the 6000-level seminar following the 5000-level colloquium they have already completed.
- Students may substitute these 9 hours of graduate-level work for 9 hours of 3000- or 4000-level undergraduate work.
- Students need to pay fees at the graduate rate for the graduate courses they take.

**Schedule for Students Enrolled Full-time**

- Students complete 9 hours of graduate-level courses in their senior year.
- Students enroll in at least 3 credit hours of graduate-level courses the summer after they receive their bachelor's degree.
- Students enroll in 9 hours of graduate-level courses in both spring and fall semesters during their master's program.
- Students complete the Capstone course, pass their preliminary exams, and fulfill their foreign language requirement by the end of their first year in the master's program.
- Students complete and defend a master's thesis in 6 hours.

**Undergraduate Requirements**

Please see the current edition of the Undergraduate Catalog.

**Graduate Requirements**

The History MA program requires a minimum of 36 credit hours beyond the bachelor's degree, including 12 credit hours of required courses, 18 credit hours in an area of concentration, and six credit hours of electives outside of the area of concentration. Students must pass a foreign language competency test, pass a written examination in two fields, and successfully complete and defend their thesis. No graduate credit is given for any grade lower than "B-".

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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http://finaid.ucf.edu

**Fellowship Information**

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**Grad Fellowships**

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

**History MA - History MA, Public History Track**

**College**

College of Arts and Humanities

**Department**

Department of History

**Track Website**

http://history.cah.ucf.edu/academics/graduate-programs/
Track Handbook

History MA, Public History Track

Track Contact Information

Amy E. Foster, PhD
Associate Professor
Amy.Foster@ucf.edu
Telephone: 407-823-2225
Trevor Colbourn Hall (TCH) 315B

Scot A. French, PhD
Associate Professor and Director of Public History
Scot.French@ucf.edu
Telephone: 407-823-2225
Trevor Colbourn Hall (TCH) 315B

Is this track available 100% online?

No

Track Description

The Public History Track in the History MA program is designed to teach students how to preserve and interpret history while engaging a broad variety of audiences. Students who wish to pursue careers in community and local history, digital history, historic site preservation and administration, museum studies, oral history, heritage tourism, or a variety of other careers that employ applied research will find this degree valuable and rewarding.

Courses in the Public History Track allow students to learn the theories, methods, and technical skills historians use as they put history to work in the world. They build on the foundation of reading colloquia and research seminars that are firmly located in time and space to explicitly focus on the practice of history.

Track Prerequisites

A bachelor's degree in History (or an equivalent).
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants must provide:

- One official transcript from each college/university attended.
- A bachelor's degree in History (or an equivalent).
- The GRE is not required for admission to this program.
- A 3.25 GPA in all upper-division history courses taken as an undergraduate student.
- A Statement of Purpose (maximum of two pages) describing personal goals and objectives in seeking a graduate degree in history.
- Three letters of recommendation from former professors who can address the applicant's ability to undertake graduate-level history courses.
- A substantial academic writing sample between 2000 and 5000 words illustrating the applicant's ability to engage in historical research and analysis. Acceptable writing samples may include a chapter from an honors thesis, a conference paper, or a term paper.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants who hold an undergraduate degree in History but do not have a GPA of 3.0 in all work attempted while registered as an undergraduate student, or while registered as an upper-division undergraduate student (normally based on the last sixty attempted semester hours), or a 3.25 GPA in their upper-division history courses may take up to 9 hours of graduate courses as non-degree-seeking students. To be admitted into the graduate program, however, they must earn a 3.3 GPA or higher in the graduate-level history courses they take under this status.

Generally, applicants who meet all of the above requirements but do not have an undergraduate degree in History must complete 12 hours of history course work at the 3000 and 4000 level, with a 3.25 GPA in these courses, before entering the graduate program. These courses will not count toward the graduate degree. The History Department Graduate Committee can waive this requirement, in whole or in part, when applicants present evidence that they are capable of successfully completing graduate history courses.

If, in addition, applicants do not meet one of the other requirements for entry, such as a GPA of 3.0 in all work attempted while registered as an undergraduate student, or while registered as an upper-division undergraduate student (normally based on the last sixty attempted semester hours), they must complete 12 hours of course work at the 3000 and 4000 level with GPA of 3.5 before they can be admitted to the graduate program.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Public History</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses (Core)
9 Total Credits

- Complete the following:
  - HIS5067 - Introduction to Public History (3)
  - HIS6159 - Historiography (3)
  - HIS6905 - History Capstone Class (3)

Required Courses (Specialization)
15 Total Credits

- Complete all of the following
  - Public History- 9 Credit Hours
- Complete at least 3 of the following:
  - AMH6346 - Seminar in the History of American Automobility (3)
  - HIS6592 - Seminar in Oral History (3)
  - HIS5083 - Cultural Heritage Management (3)
  - HIS5925 - History in the Digital Age (3)
  - HIS6165 - Digital Tools for Historians (3)
  - HIS5088 - Readings in Curation and Public History (3)
  - HIS6094 - Seminar in Curation and New Media (3)
  - HIS6167 - Spatial History (3)
  - HIS6942 - Internship (3)
  - AMH6429 - Seminar in Community and Local History (3)
  - HIS6096 - Seminar in Historic Preservation (3)

- Western Hemisphere Courses: Caribbean, North American, or South American - 6 Credit Hours
  - Complete at least 2 of the following:
    - AMH5116 - Colloquium in Early American History (3)
    - AMH5169 - Colloquium in the American Early Republic (3)
    - AMH5176 - Colloquium in Civil War and Reconstruction (3)
    - AMH5296 - Colloquium in 20th Century U.S. (3)
    - AMH5378 - History of Technology (3)
    - AMH5391 - Colloquium in U.S. Cultural History (3)
    - AMH5406 - Colloquium in American South (3)
    - AMH5077 - Colloquium in Twentieth Century Tourism (3)
    - AMH6346 - Seminar in the History of American Automobility (3)
    - HIS5926 - Colloquium: History of Women and Gender (3)
    - AMH5636 - Colloquium in US Environmental History (3)
    - AMH5925 - Colloquium in US Military History (3)
    - AMH6939 - Seminar in U.S. History (3)
    - LAH5920 - Colloquium in Latin American History (3)

Elective Courses
6 Total Credits

  - Eastern Hemisphere Courses: African, Asian and Middle Eastern, or European
  - Complete at least 2 of the following:
    - AFH5259 - Colloquium in African History (3)
    - AFH5806 - The Historiography of Slavery in Africa (3)
    - ASH5229 - History of the Middle East (3)
ASH5408 - Colloquium in Modern China (3)
ASH5485 - U.S. China Relations (3)
ASH5925 - Colloquium in South Asian History (3)
ASH6936 - Seminar in US-China Relations (3)
EUH5419 - Colloquium in Roman History (3)
EUH5459 - Colloquium in French History (3)
EUH5546 - Colloquium: British History (3)
EUH5905 - European Imperialism (3)
EUH5925 - Colloquium in Medieval Europe (3)
EUH5208 - Colloquium in Early Modern History (3)
EUH6939 - Seminar in European History (3)
EUH5579 - Colloquium in Soviet Russia (3)

Thesis
6 Total Credits

- Complete all of the following
  Hours
- Earn at least 6 credits from the following types of courses:
  HIS 6971 Thesis The culminating event of the program is a minimum of six credit hours at the 6000-level developing
  and sustaining a historical argument in writing according to the accepted professional and ethical standards of the
  discipline.
- Thesis or Project Defense
  The final step in completing the thesis requirement is a one-hour oral defense before the thesis committee.

Comprehensive Examination
0 Total Credits

- Each candidate for the Master of Arts in History must pass written examinations in two fields upon conclusion of regular course
  work and before beginning a thesis. These examinations must be taken and passed as part of the requirements for the
  capstone course. Students are provided two attempts at successfully passing the examinations. Each student will also submit a
  thesis prospectus and preliminary bibliography, which the three members of the student's thesis committee judge acceptable
  as the preliminary step to beginning the thesis. An oral defense of the written exams and the thesis prospectus and
  bibliography is also a requirement of the capstone course.

Foreign Language Competency
0 Total Credits

- Students will also be expected to demonstrate reading competency in a foreign language translation examination. The foreign
  language examination (FLE) must be completed one semester prior to the thesis defense. For detailed information on the
  History Foreign Language Exam requirement and process, please see the department's MA program guidebook.

Grand Total Credits: 36

Track Details
The Public History track requires a minimum of 36 credit hours beyond the bachelor's degree, including 9 credit hours of required core
courses, 15 credit hours in the public history area of concentration, and; 6 credit hours of elective courses taken outside of the area of
concentration. All students must pass a foreign language translation examination, pass a capstone written examination in two fields,
and successfully complete and defend their thesis or project. No graduate credit is given for any grade lower than "B-..

Students have the option to take up to two (2) graduate courses (6 hours) in another UCF department/program at the discretion of the
History MA Graduate Director. Students must meet in person with the Graduate Director prior to enrollment in the proposed course,
with written information about the course and justification, before approval will be granted. Any course outside the history program
will replace the student's independent study option. Only two (2) courses from any graduate certificate program (i.e. GIS, Women's
Studies) can be counted toward the History MA degree.

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more
information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF
and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is
another key resource.

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http://finaid.ucf.edu
Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Music MA

College
College of Arts and Humanities

Department
Department of Music

Program Website
http://performingarts.cah.ucf.edu/study/#musicgrad/

Program Handbook
Music MA

Program Contact Information
Keith Koons DMA
Professor
keith.koons@ucf.edu
Telephone: 407-823-5116
Performing Arts Center (PAC) M122

Is this program available 100% online?
No

Program Description

The Master of Arts in Music program is intended to provide additional study and training in music to individuals who already hold a bachelor's degree in music or the equivalent.

The Conducting Concentration is designed for those students who wish to specialize in conducting, leading to recital performances as a conductor.

The Music Studies Concentration reflects the general nature of this degree and allows students to pursue a variety of interests within music, such as performance, jazz studies, music education, and composition. The philosophy of this program is to provide graduate students with the advanced education, skills, and credentials to enhance their professional abilities and opportunities.

The Music MA program requires a minimum of 30-34 credit hours beyond the bachelor's degree. Students must take 11 credit hours of required music courses and 17 credit hours of elective courses. Both thesis and nonthesis options are available and students planning on pursuing a doctoral degree are encouraged to select the thesis option. Nonthesis students must take a Recital or Graduate Project course (2 credit hours) in addition to the 28 credit hours of coursework described above, and thesis students must complete a thesis project (6 credit hours).

Total Credit Hours Required: 30-34 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

A bachelor's degree in music from a NASM accredited school or the equivalent.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in music from a NASM accredited school or the equivalent.
- The GRE is not required for admission to this program.
- Two letters of recommendation.
- A formal writing sample of at least 1000 words, which should represent the applicant's best scholarly work. The topic should be on a musical subject.
- Applicants for the Conducting Concentration will submit a conducting/rehearsal audition of approximately 20 minutes on a repertoire to be agreed upon with the UCF Director of Bands, Director of Choral Activities, or Director of Orchestras (based on an area of focus), in consultation with conducting faculty. A video or remote live conducting example may be substituted at the discretion of the faculty. Applicants will also meet in an interview with UCF conducting faculty.
- Applicants for all other areas within the Music Studies Concentration will require an Admission Examination with a faculty committee. This examination will consist of an interview or audition or portfolio review as appropriate according to the applicant's goals. The applicant will consult with the Graduate Coordinator in advance to prepare for presentation in appropriate areas of interest to the candidate, such as performance, composition, music history, etc. It is highly recommended to attend this examination in person, although the use of audio and/or video recordings is possible, with the permission of the Graduate Coordinator. The faculty committee will evaluate the candidate and make a recommendation regarding admission. The final decision will be made by either the Graduate Coordinator or Director of the School of Performing Arts.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals and the applicant's potential for completing the degree.

Applicants may be given conditional admission, conditional to the imminent completion of the bachelor's degree and submission of a final transcript.

After acceptance and at the beginning of course work, students will take a diagnostic exam in Music Theory. If remedial course work is required in the case of deficiencies, this will not count toward the total hours for the degree.

Students may transfer up to nine hours of graduate credit from another accredited institution, subject to approval of adviser.

Graduate Application Deadlines

<table>
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Application Deadlines Notes

* Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230

Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements
Students Choose Music Studies or Conducting Concentration
30 - 34 Total Credits

- Complete 1 of the following
  Music Studies Concentration - 30-34 Credit Hours
  Music Studies Required Courses - 11 Credit Hours
- Complete all of the following
  ■ Complete the following:
    ■ MUH6916 - Music Bibliography and Research (3)
    ■ MUH6935 - Music History Seminar (3)
    ■ MUT6621 - Techniques and Concepts of Musical Analysis (3)
  ■ Earn at least 2 credits from the following types of courses:
  - To include a minimum of 2 credits of applied lessons (5000 or 6000-level in MVB, MVK, MVS, MVP, MVV, MVW, or MVO) or ensembles (5000 or 6000-level in MUN or MUO).
  Music Studies Elective Courses - 17 Credit Hours
  Music Studies Restricted Electives in Music
  ■ Complete all of the following
  ■ Course selections in this area will be in a cognate or area of emphasis with approval by program adviser (Performance, Conducting, Composition, Music History, Music Theory, Music Education, Jazz Studies, etc.). Students may not take non-repeatable graduate courses that are similar to courses taken at the undergraduate level.
  ■ Earn at least 9 credits from the following:
    ■ MUH6935 - Music History Seminar (3)
    ■ MUE5348C - K-12 Music Methods (4)
    ■ MUE6175 - Teaching Music Performance (3)
    ■ MUG6106 - Advanced Conducting I (3)
    ■ MUG6306 - Conducting and Literature (3)
    ■ MUCS112 - Composition V (2)
    ■ MUCG6251 - Composition VI (2)
    ■ MUS5677 - Health and Wellness for the Performing Artist (3)
    ■ MUT5936 - Music Theory Seminar (3)
    ■ MUH5326 - Medieval and Renaissance Music (3)
    ■ MUH5345 - Music of the Baroque (3)
    ■ MUH5356 - Eighteenth-Century Music (3)
    ■ MUH5375 - Music Since 1900 (3)
    ■ MUH5816 - Jazz Styles and Analysis (3)
    ■ MUS5365 - Music of the 19th Century (3)
    ■ MUS5385L - Graduate Chamber Singers (1)
    ■ MUS5385L - Graduate University Chorus (1)
    ■ MUS5325 - Women's Chorus (1)
    ■ MUS5465L - Graduate Chamber Music (1)
    ■ MUS5145 - Wind Ensemble (1)
    ■ MUS5215 - Symphony Orchestra (1)
    ■ MUS5125 - Concert Band (1)
    ■ MUS5715L - Jazz Ensemble (1)
    ■ MUS5716L - Jazz Chamber Group (1)
    ■ MUO5505L - Graduate Opera Workshop (1)
    ■ MUS5445 - Percussion Ensemble (1)
  - Students may also take the follow towards this 9 credit hour requirement: MVX 5XXX - Performance V (audition required) 2 Credit Hours MVX 6XXX - Performance VI (audition required) 2 Credit Hours Note: The designation MUN 5XXX means that any 5000-level ensemble course will fulfill this requirement; similarly, MVX 5XXX means that any 5000-level applied music course in performance will fulfill this requirement. * MUN 5368L, MUN 5385L, MUN 5465L, and MUO 5505L may be used in the degree program a maximum of five times. * MUN 5325, MUN 5145, MUN 5215, MUN 5125, MUN 5445; MUN 5715L, and MUN 5716L may be used in the degree program a maximum of four times.
  Music Studies Restricted Elective Studies in Supportive Areas - 8 Credit Hours
  ■ Complete all of the following
  ■ Earn at least 8 credits from the following types of courses:
    ■ MVO 5250 - Advanced Secondary Instruction 1 Credit Hours MUS 6908- Independent Study 1-3 Credit Hours 5000- or 6000-level music courses or non-music courses with approval of advisor; may include any new or repeatable courses from the sections above. Students may not take non-repeatable graduate courses that are similar to courses taken at the undergraduate level.
  Music Studies Thesis/Nonthesis Option - 6 Credit Hours
  ■ Complete 1 of the following
  ■ Earn at least 6 credits from the following types of courses:
    ■ Music Studies Thesis Option MUS 6971 Thesis 6 Credit Hours Students planning to pursue a doctoral degree (in areas such as music theory, music education, or music history) are strongly encouraged to select the thesis option.
  ■ Earn at least 2 credits from the following types of courses:
    ■ Music Studies Nonthesis Option - 2 Credit Hours The culminating experience may be a recital in performance, composition, or conducting (Graduate Recital); or a written project of smaller scope than a thesis; e.g., a portfolio or research paper (Graduate
Project). MUS 6976L - Graduate Recital 2 Credit Hours or MUS 6975L - Graduate Project 2 Credit Hours

Conducting Concentration - 30 Credit Hours
Conducting Required Courses - 11 Credit Hours

- Complete all of the following:
  - MUH6916 - Music Bibliography and Research (3)
  - MUH6935 - Music History Seminar (3)
  - MUS6960 - Comprehensive Exam
  - MUT6621 - Techniques and Concepts of Musical Analysis (3)

- Earn at least 2 credits from the following types of courses:
  - To include a minimum of 2 credits of applied lessons (5000 or 6000-level in MVB, MKV, MVS, MVP, MVV, MVW, or MVO) or ensembles (5000 or 6000-level in MUN or MUO).

Conducting Elective Courses - 17 Credit Hours
Conducting Area of Emphasis - 12 Credit Hours

- Complete all of the following:
  - Earn at least 12 credits from the following:
    - MUG6306 - Conducting and Literature (3)
  - Course will be taken 4 times at 3 credits each.
  - Conducting Music Electives - 5 Credit Hours

- Complete all of the following:
  - Earn at least 5 credits from the following:
    - MUC5112 - Composition V (2)
    - MUC6251 - Composition VI (2)
    - MUE5348C - K-12 Music Methods (4)
    - MUE6175 - Teaching Music Performance (3)
    - MUG6106 - Advanced Conducting I (3)
    - MUH5326 - Medieval and Renaissance Music (3)
    - MUH5345 - Music of the Baroque (3)
    - MUH5356 - Eighteenth-Century Music (3)
    - MUH5365 - Music of the 19th Century (3)
    - MUH5375 - Music Since 1900 (3)
    - MUH5816 - Jazz Styles and Analysis (3)
    - MUH6935 - Music History Seminar (3)
    - MUN5125 - Concert Band (1)
    - MUN5145 - Wind Ensemble (1)
    - MUN5215 - Symphony Orchestra (1)
    - MUN5326 - Women's Chorus (1)
    - MUN5368L - Graduate Chamber Singers (1)
    - MUN5385L - Graduate University Chorus (1)
    - MUN5445 - Percussion Ensemble (1)
    - MUN5465L - Graduate Chamber Music (1)
    - MUN5715L - Jazz Ensemble (1)
    - MUN5716L - Jazz Chamber Group (1)
    - MUO5505L - Graduate Opera Workshop (1)
    - MUS5677 - Health and Wellness for the Performing Artist (3)
    - MUT5936 - Music Theory Seminar (3)

- * MUN 5368L, MUN 5385L, MUN 5465L, and MUO 5505L may be used in the degree program a maximum of five times.
- * MUN 5325, MUN 5145, MUN 5215, MUN 5125, MUN 5445, MUN 5715L, and MUN 5716L may be used in the degree program a maximum of four times.

Conducting Nonthesis Option - 2 Credit Hours

- Complete the following:
  - MUS6976L - Graduate Recital (2)

Grand Total Credits: 30 - 34

Program Details

Additional Program Requirements

- Performance V and VI, Conducting & Literature, and ensembles all require an audition.
- Composition V and VI requires submission of a portfolio.
- No more than 6 credit hours of MUN courses may be counted toward the degree.
- A minimum of 15 credit hours applied to the degree must be at the 6000 level.

Equipment Fee

Students in the Master of Arts in Music Program pay a $90 equipment fee each semester that they are enrolled.
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Professional Writing Graduate Certificate

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Program Website
http://writingandrhetoric.cah.ucf.edu/prowriting.php

Program Contact Information
Sherry Rankins-Robertson, PhD
Sherry.Robertson@ucf.edu
Telephone: 407-823-2295
Trevor Colbourn Hall (TCH) 165H

Is this program available 100% online?
Yes

UCF Online
Please Note: The Professional Writing Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees. See http://ucf.edu/online for more information.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description
The Graduate Certificate in Professional Writing offers professionals opportunities to develop and improve communication skills vital to advancing in the workplace.

The certificate is designed for busy professionals, all courses are offered via the web, and the program can be completed in as few as three consecutive semesters.
Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Successful applicants will have received a grade of "A" or "B" in an upper-division writing intensive course. All applications require the following in order to be reviewed:

- An application to the graduate certificate program
- Official transcripts
- A statement of academic intent

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Graduate Application Deadlines

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<tr>
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Application Deadlines Notes

The Spring 2022 Application Deadline has been extended until December 1, 2021.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
6 Total Credits

- Complete the following:
  - ENC5337 - Rhetorical Theory (3)
  - ENC6701 - Professional Writing Studies (3)

Elective Courses
9 Total Credits

- Complete all of the following
  - Complete at least 3 of the following:
    - ENC5237 - Writing for the Business Professional (3)
    - ENC5276 - Theory and Practice of Tutoring Writing (3)
    - ENC5705 - Approaches to Teaching College Composition (3)
    - ENC5930 - Current Topics in Professional Writing (3)
    - ENC6216 - Editing Professional Writing (3)
    - ENC6217 - Technical Editing (3)
    - ENC6247 - Proposal Writing (3)
    - ENC6257 - Visual Technical Communication (3)
    - ENC6261 - Technical Writing, Theory and Practice (3)
    - ENC6292 - Project Management for Technical Writers. (3)
    - ENC6296 - Interactive Design in Technical Communication (3)
    - ENC6297 - Production and Publication Methods (3)
    - ENC6306 - Persuasive Writing (3)
    - ENC6332 - Gendered Rhetoric (3)
    - ENC6333 - Contemporary Rhetoric and Composition Theory (3)
    - ENC6335 - Rhetorical Traditions (3)
    - ENC6338 - The Rhetorics of Public Debate (3)
    - ENC6339 - Rhetorical Movements (3)
    - ENC6421 - Digital Rhetorics (3)
    - ENC6425 - Hypertext Theory and Design (3)
    - ENC6428 - Digital Literacies (3)
    - ENC6429 - Teaching Writing With Computers (3)
    - ENC6945 - Community Literacy Practicum (3)
    - ENC6712 - Studies in Literacy and Writing (3)
    - ENC6245 - Teaching Professional Writing (3)
    - ENC6740 - Topics in Rhetoric and Composition (3)
    - ENG5009 - Methods of Bibliography and Research (3)
    - LINS137 - Linguistics (3)
    - LINS575 - English Grammar and Usage (3)

- Note: Due to their similarity, students can apply either ENC 6216 or ENC 6217 to this program of study. Students cannot use both for elective credit for this program.

Electronic Writing Portfolio
0 Total Credits

- Students will complete a web-based professional portfolio before filing for graduation. This portfolio must be approved by the program director and must include three exemplary projects, each from a different course. A page analyzing the rhetorical situation should accompany each project.

Exit Survey
0 Total Credits

- Students should complete the Exit Survey at the end of their program if they would like to receive a certificate of program completion in addition to their grade audit.

Grand Total Credits: 15

Spanish MA

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures
Program Website
http://mll.cah.ucf.edu/graduate/spanish.php

Program Handbook
Spanish MA

Program Contact Information
Lisa Nalbone PhD
Associate Professor
Lisa.Nalbone@ucf.edu
Telephone: 407-823-2472
Trevor Colbourn Hall (TCH) 360F

Is this program available 100% online?
No

Program Description
The master's program in Spanish is intended for those who wish to continue their study of the literature, linguistics and culture of the Spanish-speaking world at the graduate level.

The Spanish program focuses on the literature, linguistics, culture and civilization of Spain, Latin America, and Hispanics in the United States. Students in the program learn research methods, enhance language skills, and acquire a scholarly view of culture, literature, and linguistics of the Spanish-speaking world.

The master's degree program in Spanish has both thesis and nonthesis options. A total of 36 credit hours of coursework for the nonthesis option or 30 credit hours of coursework plus 6 credit hours of thesis (3 credit hours minimum) are required of students seeking the master's degree in Spanish. After 9-18 credit hours in the program, students are expected to select either Literature or Spanish Linguistics as their specialization.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites
A bachelor's degree in Spanish or a related field.

Prospective students are expected to have read widely in Hispanic literature/linguistics and to be competent in understanding, reading, and writing Spanish. They should also be familiar with the vocabularies of literary criticism and grammar.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide following:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Spanish or a related field.
- The GRE is not required for admission to this program.
- Three letters of recommendation.
- Writing sample written in Spanish on a topic of literature or linguistics of the Spanish-speaking world, including Hispanics in the USA
- Interview with the Spanish MA Program Director.
- Approval by the Graduate Committee of the Department of Modern Languages and Literatures.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application information is also available at mll.cah.ucf.edu/graduate/spanish.php.

Prospective students are expected to have read widely in Hispanic literature/linguistics and to be competent in understanding, reading, and writing Spanish. They should also be familiar with the vocabularies of literary criticism and grammar.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.
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Application Deadlines Notes

* Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Institution Codes

GRE: 5233
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Degree Requirements

Research Methods
3 Total Credits
- Complete the following:
  - SPW6919 - Advanced Spanish Graduate Research (3)

Culture and Civilization
6 Total Credits
- Complete at least 2 of the following:
  - SPN5502 - Hispanic Culture of the United States (3)
  - SPN5505 - Spanish Peninsular Culture and Civilization (3)
  - SPN5506 - Spanish American Culture and Civilization (3)

Literature\Linguistics Specialization
15 Total Credits
- Complete 1 of the following
  - Literature Specialization - 15 Hours
  - Spanish Linguistics - 3 Hours
- Complete all of the following
  - Complete at least 1 of the following:
    - SPN5705 - Bilingualism in the US (3)
    - SPN5825 - Spanish Dialectology (3)
    - SPN5845 - History of the Spanish Language (3)
    - SPN6805 - Spanish Morphosyntax (3)

  - Literature
    - Complete all of the following
      - Complete at least 4 of the following:
        - SPW5741 - Contemporary Spanish American Southern Cone Literature (3)
        - SPW6825 - Colloquium in Don Quixote & Cervantes in the 21st Century (3)
        - SPW6405 - Medieval Spanish Literature (3)
        - SPW6217 - Spanish American Prose I (3)
        - SPW6218 - Spanish American Prose II (3)
        - SPW6269 - Nineteenth Century Spanish Novel (3)
        - SPW6306 - Spanish American Drama (3)
SPW6315 - Early Modern Spanish Theatre (3)
SPW6356 - Spanish American Poetry (3)
SPW6485 - Contemporary Peninsular Literature (3)
SPW6725 - The Generation of 1898 (3)
SPW6216 - Spanish Golden Age Prose and Poetry (3)
SPW6775 - Spanish Caribbean Prose (3)

SPW 6825 - Colloquium in Don Quixote & Cervantes in the 21st Century 3 Credit Hours *(May be repeated for credit with different topics) * Examples of Seminar Series Topics: Don Quixote, Spanish American Literature Written by Women, Gabriel García Márquez, Memory and Identity in Modern Spanish Literature, Semantics and Pragmatics, Special Study in Spanish Linguistics

Linguistics Specialization - 15 Hours
Spanish Linguistics - 12 Hours

Complete all of the following:

- SPN5705 - Bilingualism in the US (3)
- SPN5825 - Spanish Dialectology (3)
- SPN5845 - History of the Spanish Language (3)
- SPN6805 - Spanish Morphosyntax (3)

Literature

Complete all of the following:

- SPW5741 - Contemporary Spanish American Southern Cone Literature (3)
- SPW6825 - Colloquium in Don Quixote & Cervantes in the 21st Century (3)
- SPW6405 - Medieval Spanish Literature (3)
- SPW6217 - Spanish American Prose I (3)
- SPW6218 - Spanish American Prose II (3)
- SPW6306 - Spanish American Drama (3)
- SPW6315 - Early Modern Spanish Theatre (3)
- SPW6356 - Spanish American Poetry (3)
- SPW6485 - Contemporary Peninsular Literature (3)
- SPW6725 - The Generation of 1898 (3)
- SPW6216 - Spanish Golden Age Prose and Poetry (3)
- SPW6775 - Spanish Caribbean Prose (3)
- SPW6269 - Nineteenth Century Spanish Novel (3)

SPW 6825 - Colloquium in Don Quixote & Cervantes in the 21st Century 3 Credit Hours *(May be repeated for credit with different topics) * Examples of Seminar Series Topics: Don Quixote, Spanish American Literature Written by Women, Gabriel García Márquez, Memory and Identity in Modern Spanish Literature, Semantics and Pragmatics, Special Study in Spanish Linguistics

Elective Courses

6 Total Credits

- Earn at least 6 credits from the following types of courses:
  All students required to take at least 6 credit hours of electives. These must be approved by your adviser.

Thesis/Nonthesis Option

6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following:
      - SPW6971 - Thesis (1 - 99)
  - Nonthesis Option
    - Earn at least 6 credits from the following types of courses:
      Students in the nonthesis option must take an additional 6 credit hours of electives as approved by your adviser.

Comprehensive Examination

0 Total Credits

Requirements and Reading List for Literature Specialization or Linguistics Specialization

- Students must pass a comprehensive examination in order to qualify for the master's degree in Spanish. This examination is based on knowledge of the literature and culture of Spain and Hispanic America and/or on concepts of linguistic theory and analysis. Since this examination will be given toward the end of the coursework (only during fall and spring semesters), it is expected that the student will have developed an ability to analyze literature, culture, and linguistics at the graduate level. It is also expected that the responses, both written and oral, will show an excellent command of the Spanish language. The oral examination will follow the written examination and will allow students to expand more readily on particular points of culture, literature, and linguistics, and to show ability in the use of the spoken language. If a student does not successfully pass both the written and oral comprehensive examinations, he or she may be able to retake the exams in the following semester (fall or spring). Thereafter, if the student does not pass the examinations the second time, he/she will be removed from the program. The Graduate Committee has developed a reading list of major Peninsular, Latin American, and Linguistics works and works by Hispanics in the U.S., with which the student must be familiar. The comprehensive examination is based on the entirety of the respective reading lists (primary and secondary areas) and the courses that the student has taken.
Independent Learning
0 Total Credits

- All classes require a research paper or research project that allows students to engage in independent learning. The program also offers a thesis option.

Grand Total Credits: 36

Program Details

A minimum grade of "B" must be earned in each required course. Students will be allowed a maximum total of 6 semester hours of "C" grades in elective courses. Students are allowed to transfer up to 6 credit hours of corresponding graduate courses with the grade of "A" or "B" from an accredited university. University policies and procedures will be followed for all degree requirements. Courses are to be chosen from the following categories in accordance with the number of hours designated in each, based on the student's specialization.

Literature Specialization

- Research Methods: 3 Credit Hours
- Spanish Linguistics: 3 Credit Hours
- Culture and Civilization: 6 Credit Hours
- Literature: 12 Credit Hours
- Electives: 6 Credit Hours
- Nonthesis Option Electives, 6 Credit Hours OR Thesis Option, 6 Credit Hours

Linguistics Specialization

- Research Methods: 3 Credit Hours
- Spanish Linguistics: 12 Credit Hours
- Culture and Civilization: 6 Credit Hours
- Literature: 3 Credit Hours
- Electives: 6 Credit Hours
- Nonthesis Option Electives, 6 Credit Hours OR Thesis Option, 6 Credit Hours

Students must choose electives from the additional, available courses listed below in conjunction with their faculty adviser. The aim of the selections should be to complement the acquisition of knowledge in the particular area of Hispanic studies chosen. Courses must be selected so that at least one-half of the required courses are taken at the 6000 level.

All students are required to take SPW 6919 - Advanced Spanish Graduate Research, which results in a research paper that organizes and summarizes knowledge in a chosen area of study. All classes require a research paper that allows students to engage in independent learning.

Courses are delivered face to face, hybrid or online, and are conducted entirely in Spanish.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Teaching English as a Foreign Language Graduate Certificate
College of Arts and Humanities

Department of Modern Languages and Literatures

Program Website
https://mll.cah.ucf.edu/program/tefl-grad-certificate/

Program Contact Information

Susan Jefferson MPA
susan.jefferson@ucf.edu
Telephone: 407-823-0087
Trevor Colbourn Hall (TCH) 358F

Kerry Purmensky
Kerry.Purmensky@ucf.edu
Telephone: 407-823-0087
Trevor Colbourn Hall (TCH) 365D

Is this program available 100% online?
No

Program Description

The Graduate Certificate in Teaching English as a Foreign Language prepares students with specialized knowledge and skills to teach English as a Foreign Language in overseas settings.

The program focuses on the fundamentals of EFL teaching principles and methodology, linguistics, materials/curriculum development, and assessment.

English has become the gateway to many international and technical jobs, as well as the key to entrance into institutions of higher education. The number of people interested in learning English as a second or third language is increasing steadily. With the rising demand for English instructors comes an increasing need for individuals qualified to teach English as a Foreign Language. The majority of overseas English language schools require their teachers to be certified in Teaching English as a Foreign Language. Our flexible, four-course program is taught by qualified instructors with experience in language pedagogy and overseas teaching. (Note: The TEFL Certificate Program is not designed for teachers seeking K-12 ESOL endorsement in Florida.)

If you are looking to teach English overseas, the TEFL Certificate at UCF is your gateway to a new career. Your courses will not only prepare you for teaching in another country, they are accredited courses that will count toward your graduate degree.

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Graduate Application Deadlines

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<th>Teaching English as a Foreign Language Graduate Certificate</th>
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Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
  - Complete at least 4 of the following:
    - TSL5345 - Methods of ESOL Teaching (3)
    - TSL6940 - ESOL Practicum (3)
    - TSL5940 - Issues in TEFL (3)
    - TSL6142 - Critical Approaches to ESOL (3)
    - TSL6250 - Applied Linguistics in ESOL (3)
    - TSL6350 - Grammar for ESOL Teachers (3)
    - TSL6440 - Assessment Issues in TESOL (3)
    - TSL6640 - Research in Second Language (3)
    - TSL6252 - Sociolinguistics for ESOL (3)
    - TSL5380 - Computers and Technology for ESOL (3)
    - TSL5601 - Second Language Vocabulary Learning (3)
    - TSL6642 - Issues in Second Language Acquisition (3)
    - TSL6374 - TESOL Listening, Speaking and Pronunciation (3)
    - TSL6442 - Fundamentals of Standardized Assessment in TESOL (3)
    - TSL5376 - Reading and Writing in a Second Language (3)

- Note: Though the courses may be taken in any order, it is recommended that TSL 6940 - ESOL Practicum be taken near the end of a program of study (if that course is included).

Independent Learning
0 Total Credits

- Many of the courses have service-learning or practical experience components. This is to ensure that at the end of your TEFL Graduate Certificate you have the education, experience, and expertise to teach EFL in any setting.

Grand Total Credits: 12

Program Details

The TEFL Graduate Certificate can be completed in one or more semesters, depending on the semester of entrance. Students must consult with their adviser or the program director prior to selecting the four courses for their program. No course substitutions are allowed.
Program Website
https://ml.caah.ucf.edu/languages/english/

Program Handbook
Teaching English to Speakers of Other Languages (TESOL) MA

Program Contact Information
Susan Jefferson MPA
susan.jefferson@ucf.edu
Telephone: 407-823-0087
Trevor Colbourn Hall (TCH) 358F

Kerry Purmensky
Kerry.Purmensky@ucf.edu
Telephone: 407-823-0087
Trevor Colbourn Hall (TCH) 365D

Is this program available 100% online?
No

Program Description
The Master of Arts in Teaching English to Speakers of Other Languages (TESOL) provides students a strong foundation in language acquisition, use, and pedagogy. We offer our students a strong foundation in theory with numerous opportunities for gaining practical teaching experience and developing individual research agendas.

Our program supports study abroad opportunities with a focus on service learning in numerous countries, including Spain, Mexico, and China.

Our successful graduates have received Fulbright English Teaching Assistant scholarships, English Language Fellowships, and obtained positions teaching overseas and here in the United States. Our faculty work hard to support our students as they develop their scholarship and teaching skills in preparation for a successful career in TESOL.

Because UCF offers a PhD in Education with a specialty in TESOL, students can begin their TESOL career at the undergraduate level and continue to a terminal degree at the doctoral level here on campus. We also offer an undergraduate TEFL Certificate, a graduate TEFL Certificate, and the Florida ESOL Endorsement.

Our professors have diverse research interests and thrive on working with students to develop their professionalism in the field. Current research trends in the department include vocabulary, assessment, community engagement, Russian ESOL, and sociolinguistics.

This graduate program is proud to partner with the Peace Corps Paul D. Coverdell Fellows Program to provide returning volunteers an opportunity to expand their education.

The Teaching English to Speakers of Other Languages MA program requires 30-36 credit hours beyond the bachelor's degree dependent on whether students select a thesis or nonthesis option. The thesis option consists of 30 credit hours that includes 24 credit hours of core courses, 3 credit hours of electives, and 3 credit hours of TSL 6971 - Thesis. The nonthesis option requires 36 semester hours and includes 24 semester hours of core courses and 12 semester hours of electives. All students, both thesis and nonthesis, must take a written final comprehensive examination covering the core TSL courses.

Total Credit Hours Required: 30-36 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Two letters of recommendation
- Resume
- Background questionnaire
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only. For international students, the GPA calculation must equal a minimum of 3.0/4.0 to be considered for admission to UCF.

Admission to the UCF MATESOL program is competitive, and meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree. We strongly recommend that applicants submit their applications and all materials well before the published due dates.

Graduate Application Deadlines

<table>
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<tr>
<th>Teaching English to Speakers of Other Languages MA</th>
<th>*Fall Priority</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
24 Total Credits

- Complete all of the following
  - Complete the following:
    - TSL5525 - ESOL Cultural Diversity (3)
    - TSL6142 - Critical Approaches to ESOL (3)
    - TSL6250 - Applied Linguistics in ESOL (3)
    - TSL6350 - Grammar for ESOL Teachers (3)
    - TSL6440 - Assessment Issues in TESOL (3)
    - TSL6642 - Issues in Second Language Acquisition (3)
    - TSL6640 - Research in Second Language (3)
  - Complete at least 1 of the following:
    - TSL5345 - Methods of ESOL Teaching (3)
    - TSL6940 - ESOL Practicum (3)

Thesis/Nonthesis Option
6 - 12 Total Credits

- Complete 1 of the following
  - Thesis Option - 6 Hours
    - Complete all of the following
      - Earn at least 3 credits from the following:
        - TSL6971 - Thesis (1 - 99)
      - Complete at least 1 of the following:
        - TSL5325 - ESOL Strategies (3)
        - TSL5380 - Computers and Technology for ESOL (3)
        - TSL5376 - Reading and Writing in a Second Language (3)
        - TSL5940 - Issues in TEFL (3)
        - TSL6252 - Sociolinguistics for ESOL (3)
        - TSL5601 - Second Language Vocabulary Learning (3)
        - TSL6374 - TESOL Listening, Speaking and Pronunciation (3)
        - LIN5137 - Linguistics (3)
        - EDF6886 - Multicultural Education (3)
        - TSL6940 - ESOL Practicum (3)
        - EDH6305 - Teaching and Learning in Colleges and Universities (3)
        - SPA6474 - Assessment and Management of Culturally and Linguistically Diverse Populations (3)
        - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
        - ENC5276 - Theory and Practice of Tutoring Writing (3)
        - ENC5705 - Approaches to Teaching College Composition (3)
        - EDF6401 - Statistics for Educational Data (3)
        - TSL 5907 - Directed Independent Study 3 credit hours may also be taken
  - Nonthesis Option - 12 Hours
    - Complete all of the following
      - Complete at least 4 of the following:
        - TSL5325 - ESOL Strategies (3)
        - TSL5380 - Computers and Technology for ESOL (3)
        - TSL5376 - Reading and Writing in a Second Language (3)
        - TSL5940 - Issues in TEFL (3)
        - TSL6252 - Sociolinguistics for ESOL (3)
        - TSL5601 - Second Language Vocabulary Learning (3)
        - TSL6374 - TESOL Listening, Speaking and Pronunciation (3)
        - LIN5137 - Linguistics (3)
        - EDF6886 - Multicultural Education (3)
        - TSL6940 - ESOL Practicum (3)
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        - SPA6474 - Assessment and Management of Culturally and Linguistically Diverse Populations (3)
        - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
        - ENC5276 - Theory and Practice of Tutoring Writing (3)
        - ENC5705 - Approaches to Teaching College Composition (3)
        - EDF6401 - Statistics for Educational Data (3)
        - TSL 5907 - Directed Independent Study 3 credit hours may also be taken

Grand Total Credits: 30 - 36
Program Details

Most students complete the nonthesis option so that they can focus more on coursework related to specific aspects of TESOL, pedagogy, or education. The thesis option is appropriate for those students wishing to research current issues in the discipline or eventually pursue a doctoral program in TESOL or related language field. By the end of the second semester, students wishing to pursue the thesis option should speak with the program director to seek approval and a recommendation for a thesis committee chairperson.

Our courses are focused on theory into practice and, therefore, often have a service-learning, practical, or applied project as an integral part of the curriculum. The TSL 6640 - Research in Second Language is required and should be taken in the first semester of study. A final cumulative course, TSL 6642 - Issues in Second Language Acquisition, is also required. TSL 5325 - ESOL Strategies will help students prepare for their comprehensive exam.

All students must take a comprehensive written examination covering the core TSL courses. This examination is normally taken in the last semester of graduate work and will be reviewed by members of the TESOL Graduate Committee. A student may take the comprehensive examination only twice, and a second examination will not be given in the same semester in which the first attempt occurred.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

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Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student’s graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Texts and Technology PhD

College
College of Arts and Humanities

Department
College of Arts and Humanities Dean’s Office

Program Website
http://tandt.cah.ucf.edu/

Program Handbook
Texts and Technology PhD
Is this program available 100% online?

No

Program Description

Dedicated to inventing the future of the humanities, Texts and Technology is an interdisciplinary doctoral program that integrates fields such as writing, rhetoric, philosophy, technical communication, and public history with digital methods and practices in coding, game design, and archiving. The program supports engagement with digital practices in dialectical, rhetorical, procedural, and critical-cultural fields. The T&T program considers literacy in a broad sense, from traditional notions of writing and communication to more contemporary notions of computational and procedural literacy (e.g., using programming and new media installations as inventive methods for production, critique, and analysis).

Since 2001, UCF's Texts and Technology doctoral program has excelled in supporting its students with an internationally recognized faculty and by offering a rigorous curriculum in a friendly environment. Students bring knowledge of a specific discipline and deepen their understanding of the subject through a digital lens. In the T&T program, students adapt, develop, assess, and invent information practices in relation to emergent information technologies in and beyond the humanities.

Program Prerequisites

Applicants must hold an earned master's degree from an accredited institution recognized by UCF or recognized foreign institution prior to entering the Texts and Technology program. Fields with a technological and/or textual theory component, such as digital humanities, public history, technical communication, digital media, cultural studies, philosophy, rhetoric, or linguistics, are especially applicable.
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One transcript from each college/university attended, demonstrating a competitive GPA in the student’s major field of study.
- Applicants must hold an earned master’s degree from an accredited institution recognized by UCF or recognized foreign institution prior to entering the Texts and Technology program. Fields with a technological and/or textual theory component, such as digital humanities, public history, technical communication, digital media, cultural studies, philosophy, rhetoric, or linguistics, are especially applicable. The total Texts and Technology doctoral program is a combination of an earned master’s degree and the Ph.D. core, Area of Specialization, and interdisciplinary elective coursework, and dissertation hours. The Texts and Technology (T&T) PhD requires a minimum of 42 credit hours of coursework beyond the master's degree, including a minimum of 3 hours of doctoral research and 15 hours of dissertation. Eighteen credit hours are required in seven core courses. These core courses provide an interdisciplinary framework for all students. The remaining credit hours consist of additional courses in an Area of Specialization, interdisciplinary electives, and research hours. *Earned Master's Degree (minimum 30 credit hours) + 42 UCF Graduate Credit hours = 72 graduate credit hours.*
- The GRE is not required for admission to this program.
- Three letters of recommendation. These should be from faculty members, university administrators, or employers. The letters should be current to the application and should address the relevant skills of the applicant, the aspirations of the candidate, and an assessment of the applicant’s ability to perform graduate-level research. Letters that provide specific examples are more helpful than those that speak about the applicant’s abilities in vague generalities. Confidential letters are preferred.
- **Statement of Purpose:**
  - The statement should explain the motivation behind the pursuit of an interdisciplinary doctoral degree in Texts and Technology and discuss future career goals.
  - The statement should discuss all relevant professional background and any previous research experience.
  - The statement should address why the interdisciplinary composition of Texts and Technology is appropriately aligned with the applicant’s future research goals.
  - The applicant must clearly describe the particular area(s) of research interest and identify any UCF faculty members who share a similar research focus and with whom the applicant would like to work. Applicants are encouraged to visit the Texts and Technology website for additional information regarding the program and faculty (http://www.tandt.cah.ucf.edu).
  - The statement should be between 500 and 1,200 words.
- A substantial academic writing sample (between 10 and 25 double-spaced pages) and an optional digital portfolio illustrating the applicant’s ability to engage in advanced academic work should be submitted as part of the application materials. Acceptable writing samples may include a chapter from a master’s thesis, a conference paper, a term paper for a seminar, or other research projects that demonstrate the applicant’s ability to pursue the type of research that could possibly lead to a completed dissertation. The optional digital portfolio may include examples of digital humanities or interactive media projects that are annotated appropriately to explain the applicant’s contribution to the design and development process.
- Résumé or CV.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is competitive and is based on a comparative evaluation of each applicant’s proficiencies, past performance, recommendations, as well as the match of this program and faculty expertise to the applicant’s career/academic goals, and the applicant’s potential for completing the degree.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Degree Requirements

Required Courses
18 Total Credits

- Complete all of the following
  Core - 15 Hours
  - Complete all of the following
    - Complete the following:
      - ENG6800 - Introduction to Texts and Technology (3)
      - ENG6801 - Texts and Technology in History (3)
      - ENG6810 - Theories of Texts and Technology (3)
      - DIG6836 - Design and Development for Texts and Technology (3)
      - ENG6005 - Dissertation Research Design in Texts and Technology (3)
    - Earn at least 0 credits from the following:
      - ENG6826 - Professionalization in Texts and Technology (0 - 99)

- Research Methods
  - Complete all of the following
    - Complete at least 1 of the following:
      - ENG6812 - Research Methods for Texts and Technology (3)
      - DIG6825 - Research Methods for Interactive Media (3)
      - ENC6720 - Research Methods in Rhetoric and Composition (3)
      - HIS6159 - Historiography (3)
    - Select one course from the list above, or an alternate 6000-level methods course subject to approval by the instructor and the Texts and Technology Program Director.

Area of Specialization (See Program Details Section for Descriptions)
12 Total Credits

- Complete 1 of the following
  Digital Humanities - 12 Hours
  - Earn at least 12 credits from the following:
    - ARH5897 - Advanced Seminar in Art History (3)
    - DIG5137 - Information Architecture (3)
    - DIG5508 - Programming for Digital Media (3)
    - DIG6812 - Digital Interaction for Informal Learning (3)
    - DIG6647 - History and Theory of Dynamic Media (3)
    - ENC6425 - Hypertext Theory and Design (3)
    - ENC6426 - Visual Texts and Technology (3)
    - ENC6428 - Digital Literacies (3)
    - ENG6074 - Historical Movements in Literary, Cultural, and Textual Studies (3)
    - ENG6078 - Contemporary Movements in Literary, Cultural, and Textual Theory (3)
    - ENG6624 - Social Media Research for Humanities (3)
    - ENG6806 - Digital Editing and Databases (3)
    - ENG6808 - Narrative Information Visualization (3)
    - ENG6811 - Cultural Contexts in Texts and Technology (3)
    - ENG6813 - Interdisciplinary Teaching (3)
    - ENG6814 - Gender in Texts and Technology (3)
    - ENG6819 - Critical Making for Humanist Scholarship (3)
    - HIS6167 - Spatial History (3)
    - LIT6216 - Issues in Literary Study (3)
    - LIT6936 - Studies in Literary, Cultural, and Textual Theory (3)
- PHI5665 - Knowledge, Responsibility, and Society (3)
- PHI6679 - Digital Ethics (3)
- PHM5035 - Environmental Philosophy (3)
- THE5307 - Contemporary Theatre Practice (3)
- THE5545 - Theatre for Social Change (3)
- TPA6186 - Immersive Experience Studio (3)
- TPA6188 - Visualizing Themed Environments (3)
- WST5347 - Research in Women and Gender Studies (3)
- WST5601 - Theories in Gender Studies (3)

**Digital Media**
- Earn at least 12 credits from the following:
  - DIG5137 - Information Architecture (3)
  - DIG5487 - Media Aesthetics (3)
  - DIG5508 - Programming for Digital Media (3)
  - DIG5831 - Computational Media (3)
  - DIG6136 - Design for Interactive Media (3)
  - DIG6432 - Transmedia Story Creation (3)
  - DIG6436 - Ethnographic Storytelling and New Media (3)
  - DIG6546 - Previsualization and Concept Development (3)
  - DIG6551 - Theory and Practice of Interactive Storytelling (3)
  - DIG6605 - Physical Computing (3)
  - DIG6647 - History and Theory of Dynamic Media (3)
  - DIG6812 - Digital Interaction for Informal Learning (3)
  - DIG6817 - Contemporary Topics in Interactive Media (3)
  - ENC6225 - User-Centered Design for Technical Communication (3)
  - ENC6296 - Interactive Design in Technical Communication (3)
  - ENC6421 - Digital Rhetorics (3)
  - ENC6425 - Hypertext Theory and Design (3)
  - ENG6624 - Social Media Research for Humanities (3)
  - ENG6806 - Digital Editing and Databases (3)
  - ENG6808 - Narrative Information Visualization (3)
  - ENG6813 - Interdisciplinary Teaching (3)
  - ENG6819 - Critical Making for Humanist Scholarship (3)
  - HIS6167 - Spatial History (3)
  - PHI6679 - Digital Ethics (3)

**Editing, Publishing, and Interdisciplinary Curating (EPIC) - 12 Hours**
- Earn at least 12 credits from the following:
  - ARH5897 - Advanced Seminar in Art History (3)
  - CRW6025 - Advanced Graduate Writing Workshop (3)
  - CRW6721 - Literary Journal Editing (3)
  - CRW6976 - Scholarship and Publication Models (3)
  - DIG6136 - Design for Interactive Media (3)
  - DIG5487 - Media Aesthetics (3)
  - DIG6436 - Ethnographic Storytelling and New Media (3)
  - DIG6812 - Digital Interaction for Informal Learning (3)
  - ENC6216 - Editing Professional Writing (3)
  - ENC6217 - Technical Editing (3)
  - ENC6257 - Visual Technical Communication (3)
  - ENC6297 - Production and Publication Methods (3)
  - ENC6426 - Visual Texts and Technology (3)
  - ENC6428 - Digital Literacies (3)
  - ENG6806 - Digital Editing and Databases (3)
  - HIS5083 - Cultural Heritage Management (3)
  - HIS5088 - Readings in Curation and Public History (3)
  - HIS6094 - Seminar in Curation and New Media (3)
  - LNS5675 - English Grammar and Usage (3)
  - LIT6216 - Issues in Literary Study (3)
  - PHI6679 - Digital Ethics (3)

**Public History - 12 Hours**
- Earn at least 12 credits from the following:
  - AMH5636 - Colloquium in US Environmental History (3)
  - AMH5378 - History of Technology (3)
  - AMH6346 - Seminar in the History of American Automobility (3)
  - AMH6429 - Seminar in Community and Local History (3)
  - ENG6808 - Narrative Information Visualization (3)
  - HIS5067 - Introduction to Public History (3)
  - HIS5083 - Cultural Heritage Management (3)
  - HIS5088 - Readings in Curation and Public History (3)
  - HIS5925 - History in the Digital Age (3)
  - HIS6094 - Seminar in Curation and New Media (3)
  - HIS6096 - Seminar in Historic Preservation (3)
- HIS6165 - Digital Tools for Historians (3)
- HIS6167 - Spatial History (3)
- HIS6942 - Internship (3)
- PHI6679 - Digital Ethics (3)

**Rhetoric and Composition**
- Earn at least 12 credits from the following:
  - ENC5337 - Rhetorical Theory (3)
  - ENC5705 - Approaches to Teaching College Composition (3)
  - ENC5920 - Colloquium in Rhetoric and Composition (3)
  - ENC6245 - Teaching Professional Writing (3)
  - ENC6332 - Gendered Rhetoric (3)
  - ENC6333 - Contemporary Rhetoric and Composition Theory (3)
  - ENC6335 - Rhetorical Traditions (3)
  - ENC6338 - The Rhetorics of Public Debate (3)
  - ENC6339 - Rhetorical Movements (3)
  - ENC6428 - Digital Literacies (3)
  - ENC6712 - Studies in Literacy and Writing (3)
  - ENC6740 - Topics in Rhetoric and Composition (3)
  - ENC6945 - Community Literacy Practicum (3)
  - ENG6624 - Social Media Research for Humanities (3)
  - ENG6808 - Narrative Information Visualization (3)
  - ENG6811 - Cultural Contexts in Texts and Technology (3)
  - PHI6679 - Digital Ethics (3)

**Scientific and Technical Communication**
- Earn at least 12 credits from the following:
  - ENC6217 - Technical Editing (3)
  - ENC6261 - Technical Writing, Theory and Practice (3)
  - ENC6292 - Project Management for Technical Writers (3)
  - ENC6296 - Interactive Design in Technical Communication (3)
  - ENC6297 - Production and Publication Methods (3)
  - ENC6425 - Hypertext Theory and Design (3)
  - ENC6421 - Digital Rhetorics (3)
  - ENC6247 - Proposal Writing (3)
  - ENC6257 - Visual Technical Communication (3)
  - ENC6338 - The Rhetorics of Public Debate (3)
  - ENC6624 - Social Media Research for Humanities (3)
  - ENG6808 - Narrative Information Visualization (3)
  - LIN5675 - English Grammar and Usage (3)
  - LIT6435 - Rhetoric of Science (3)
  - PHI6679 - Digital Ethics (3)

**Elective Courses - Interdisciplinary Electives**
9 Total Credits
- Earn at least 9 credits from the following types of courses:
  Students select 9 credit hours of interdisciplinary electives from any Area of Specialization, or from other departments within the university, subject to approval by the instructor and the Texts and Technology Program Director. This requirement encourages students to find graduate-level coursework best suited to develop their research agendas and to prepare for their dissertations.

**Admission to Candidacy**
3 Total Credits
- **Candidacy Examination**
  - Earn at least 3 credits from the following types of courses:
    ENC 7919 Doctoral Research 3 credit hours
    Students are admitted to doctoral candidacy status upon completion of a written examination with three parts—one part based on a reading list reviewed biennially by the Texts and Technology faculty and the other two parts based on reading lists prepared by each student and approved by the examination committee. The candidacy examination for each student is written and evaluated by a committee of three UCF Texts and Technology graduate faculty members chosen by the student. Students must be registered for ENC 7919 during the semester in which they take their candidacy examination and they must find a Texts and Technology core faculty member to serve as the chair of their examination during the semester before enrolling in ENC 7919. Students cannot register for dissertation credit (ENC 7980) until the semester after they have successfully passed the candidacy examination. Students who fail the candidacy examination a second time cannot continue in the program. The following are required in order to be admitted to candidacy and enroll in dissertation hours: Successful completion of all coursework, except for dissertation hours. Successful completion of the candidacy examination. Completion of College of Graduate Studies CITI and Academic Integrity Training. An approved dissertation advisory committee is on file, consisting of approved graduate faculty and graduate faculty scholars. A current, approved program of study is on file.

**Dissertation and Oral Defense**
15 Total Credits
- Earn at least 15 credits from the following types of courses:
ENC 7980 Students choose their dissertation adviser and committee from among the faculty in the Texts and Technology PhD program and must have one member from outside the College of Arts and Humanities. Students choose the adviser after they have completed approximately 27 credit hours toward the degree or after the first year-and-a-half of coursework. All dissertation committee members, including outside readers, must hold a PhD or another relevant degree or, if serving as a UCF Graduate Scholar, the external member must have documented evidence of exceptional relevant experience and/or scholarly or creative productivity. Students must write a dissertation on their research that will explain and defend a significant original contribution to the field of Texts and Technology. It may be of a theoretical, historical or pragmatic nature, but must meet conventional academic standards. Students are required to submit and defend a written dissertation proposal (the prospectus) during the first year in dissertation. The dissertation committee administers the candidate's oral defense of the dissertation, with passing determined by acceptance by a majority of the committee. The dissertation adviser, the dissertation committee and the dean of the college or designee must approve the final dissertation. Format approval is required from the Thesis and Dissertation Office and final approval of degree requirement completion by the College of Graduate Studies (Millican Hall 230). Students will submit at least one substantial scholarly article to a national and/or international peer-reviewed journal or proceedings conference with the approval and assistance of the dissertation chair and the director of the doctoral program.

Grand Total Credits: **57**
Program Details

Area of Specialization

Students select an Area of Specialization no later than after having completed 18 credit hours in the program. Students are required to select 12 credit hours from an Area of Specialization as noted below, or other graduate courses in the discipline subject to approval by the instructor and the Texts and Technology Program Director.

Suggested courses in various Areas of Specialization are listed below. These course groupings are only guides, are not exhaustive, and are meant to assist with advising and course selection in order to meet the individual student's educational goals and objectives. The lists are not intended to restrict elective choices among focus areas as we strongly encourage Texts and Technology students to maintain an interdisciplinary approach to their doctoral education.

If a student identifies another UCF graduate course that may be of value to their Texts and Technology research area, but it is not already identified in a list below, that student may request approval from the T&T Program Director for the course to be used as an elective in the Graduate Plan of Study. All such requests must be made in advance of enrolling in the course.

Digital Humanities

ENG 6812 - Research Methods for Texts and Technology (3 credit hours) is the recommended Methods course.

The Digital Humanities Area of Specialization prepares students for careers in research, teaching, government, and industry and combines the study and application of digital technologies with the study of human society and culture. Students develop an understanding of social and cultural shifts in relation to information technologies and invent new practices for conducting research, teaching, and writing (broadly defined) in digital media.

Digital Media

DIG 6825 - Research Methods for Interactive Media (3 credit hours) is the recommended Methods course.

The Digital Media Area of Specialization emphasizes the conceptual, theoretical, design, and technical skills needed to engage the changing platforms on which we work, teach, and live. This specialization prepares students for careers in user experience design, digital storytelling, and interactive communication. Students develop an understanding of critical making, code and software studies and development, user-centered design, and the critique and design of games and interactive media.

Editing, Publishing, and Interdisciplinary Curating (EPIC)

ENG 6812 Research Methods for Texts and Technology or DIG 6825 Research Methods for Interactive Media, or ENC 6720 Research Methods in Rhetoric and Composition, or HIS 6159 Historiography can be taken as the required Methods course.

The Editing, Publishing, and Interdisciplinary Curating Area of Specialization prepares students for careers in editing, publishing, and curating, including consideration of current and developing technologies of print and online publication; digital archiving and collections; digital world-building and publication; curation of film, visual art, gaming, and other media; scholarly projects and publications; and the impact of technologies on the way we read, interact with media, and think.

Public History

If the student does not hold a master's degree in History, HIS 6159 - Historiography (3 credit hours) is the recommended Methods course. If the student holds a master's degree in history, the recommended Methods course is ENG 6812 - Research Methods for Texts and Technology (3 credit hours).

The Public History Area of Specialization engages students in collaborations with various communities in the gathering of historic materials, preservation, archiving, curating, oral history, and related fields while preparing students for careers in academia, museums, governments, and non-profit agencies. It pays special attention to digital platforms and tools and their uses for involving public audiences in historical analysis and interpretation.

Rhetoric and Composition

ENC 6720 - Research Methods in Rhetoric and Composition (3 credit hours) is the recommended Methods course.

The Rhetoric and Composition Area of Specialization trains students to communicate effectively, persuasively, and ethically across a range of civic, professional, and educational contexts and pays special attention to digital platforms and tools and their uses for involving public audiences.

Scientific and Technical Communication

ENG 6812 - Research Methods for Texts and Technology (3 credit hours) is the recommended Methods course.

The Scientific and Technical Communication Area of Specialization provides a foundation in rhetorical theory, communication theory, design theory, and other theories informing the discipline. Students develop practical projects in a variety of professional contexts such as scientific and medical communication and communicating for international audiences.
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Theatre MA

College
College of Arts and Humanities

Department
Department of Theatre

Program Website
http://performingarts.cah.ucf.edu/study/#theatregrad/

Program Handbook
Theatre MA

Program Contact Information

Julia Listengarten PhD
Professor
julia.listengarten@ucf.edu
Telephone: 407-823-3858
Performing Arts Center (PAC) T220

Earl Weaver
Associate Professor
earl.weaver@ucf.edu
Telephone: 407-823-5158
Performing Arts Center (PAC) T231

Is this program available 100% online?
No
**Program Description**

The Master of Arts in Theatre provides developing theatre scholars, high school teachers and community college teachers the opportunity to strengthen skills and knowledge of theatre beyond the undergraduate level.

MA students will graduate with a deeper knowledge of theatre theory, history and practice and be able to apply critical thinking through research and creative work. MA students will develop dramaturgical skills through their work on productions while also understanding how to apply theoretical frames to their own creative practice.

MA students typically pursue a variety of goals: increasing specific theatrical skills, extending theatre skills into new areas, preparing for entrance into doctoral Theatre programs, or in the case of educators, expanding their expertise and credentials. Students may be admitted on either a full-time or part-time basis.

The Master of Arts in Theatre program offers a rigorous course of study of 39 credit hours minimum, culminating in the writing of a scholarly thesis. Of the 39 credit hours required for the degree, 30 credit hours are required core courses with the other 9 credit hours chosen from a specified list of elective Theatre courses offered by the School.

**Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor’s Degree**

**Program Prerequisites**

Students applying for entrance into the MA program must have successfully completed the following undergraduate courses or their equivalent: Script Analysis or Play Analysis, Theatre History or Dramatic Literature, Directing I.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BA or BFA in Theatre or equivalent.
- A 3.0 Theatre GPA.
- The GRE is not required for admission to this program.
- An interview is required.
- 5-10 page academic paper.
- Goals statement.
- Three letters of recommendation.
- Complete the general entrance prerequisites.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

**General Entrance Prerequisites**—Students applying for entrance into the MA program must have successfully completed the following undergraduate courses or their equivalent: Script Analysis or Play Analysis, Theatre History or Dramatic Literature, Directing I.

Each student entering the program must be approved by the Graduate Committee of the Department of Theatre in the School of Performing Arts.

**Graduate Application Deadlines**

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<thead>
<tr>
<th>Theatre MA</th>
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<th>Fall</th>
<th>Spring</th>
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<td>Jul 1</td>
<td>Nov 1</td>
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</tbody>
</table>

**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*

2021-2022 Graduate Catalog
Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core
6 Total Credits

- Complete the following:
  - THE5910 - Research Methods in Theatre (3)
  - THE5945L - Theatre Practicum I (1)
  - THE5946L - Theatre Practicum II (1)
  - THE6947L - Theatre Practicum III (1)

Concentration
15 Total Credits

- Complete 1 of the following
  Theatre Studies Concentration - 15 Credit Hours
  - Complete the following:
    - THE6507 - Dramatic Theory and Criticism (3)
    - THE5205 - American Theatre (3)
    - TPAS055 - Theatre Management (3)
    - THE6086C - Careers in Professional Theatre (3)
    - THE5307 - Contemporary Theatre Practice (3)

  Musical Theatre Concentration - 15 Credit Hours
  - Earn at least 15 credits from the following:
    - THE6308 - Script and Score Analysis (3)
    - TPP6344 - Musical Theatre Directing (3)
    - TP5754 - Musical Theatre Voice I (2)
    - TP5755 - Musical Theatre Voice II (2)
    - THE6756 - Methods of Teaching Drama (3)
    - TP5554C - Musical Theatre Dance I (2)
    - THE6918 - Directed Research (1 - 99)
    - TPP6933 - Acting Studio V (2)

Elective Courses
9 Total Credits

- Complete 1 of the following
  Theatre Studies Concentration - 9 Credit Hours
  - Complete all of the following
    - Earn at least 9 credits from the following:
      - TPAS345C - 2D Computer Assisted Design for Theatre (2)
      - TPAS346C - 3D Modeling for Theatre (2)
      - THE5288 - Period Costumes, Architecture and Decor I (3)
      - THE5289 - Period Costumes, Architecture and Decor II (3)
      - TPAS885C - Puppetry (2)
      - TPP5248C - Storytelling as a Theatrical Art Form (2)
      - THE6756 - Methods of Teaching Drama (3)
      - THE5385 - Dramatic Literature for Children (3)
      - TPAS085C - Design Seminar for Theatre (2)
      - TPP6247 - Theatre for Social Change (3)
      - Other graduate-level courses may be permitted with school approval.

Musical Theatre Concentration - 9 Credit Hours
Complete all of the following

- Earn at least 9 credits from the following:
  - THE5237 - Cultural Diversity in Theatre (3)
  - THE5425 - Women in Theatre (3)
  - THE6908 - Independent Study (1 - 99)
  - THE5205 - American Theatre (3)
  - THE5288 - Period Costumes, Architecture and Decor I (3)
  - THE5289 - Period Costumes, Architecture and Decor II (3)
  - THE5307 - Contemporary Theatre Practice (3)
  - THE5385 - Dramatic Literature for Children (3)
  - THE6507 - Dramatic Theory and Criticism (3)
  - TPA5085C - Design Seminar for Theatre (2)
  - TPA5345C - 2D Computer Assisted Design for Theatre (2)
  - TPA5346C - 3D Modeling for Theatre (2)
  - TPA5405 - Theatre Management (3)
  - TPA5885C - Puppetry (2)
  - TPP5248C - Storytelling as a Theatrical Art Form (2)
  - TPP6247 - Theatre for Social Change (3)
  - THE6086C - Careers in Professional Theatre (3)
  - THE5215 - Global Theatre (3)
  - Other graduate-level courses may be permitted with school approval.

Thesis
9 Total Credits

- Earn at least 9 credits from the following:
  - THE6971 - Thesis (1 - 99)

Examination
0 Total Credits

- A comprehensive Theatre exam is administered to MA majors at the end of their course work. The department allows two attempts at a comprehensive exam.

Transfer and Residency
0 Total Credits

- Students without an earned master's degree can usually transfer up to 9 semester hours of credit into this program. A minimum of 30 credits must be taken at the University of Central Florida. Students must complete a residency requirement of at least two full-time consecutive semesters. A summer session may be counted toward the two consecutive semester requirement.

Independent Learning
0 Total Credits

- A thesis is required.

Grand Total Credits: 39

Program Details

Candidates must demonstrate the ability to understand the conceptual basis of their art and to be able to articulate that understanding to others. In addition to their theoretical studies, MA students are also required to demonstrate proficiency in theatrical production. Students are expected to select either Theatre Studies or Musical Theatre as their concentration when applying for the program. Please note that the Theatre MA, Musical Theatre concentration may be completed fully online/remote, although not all elective options or program prerequisites may be offered online.

Students must maintain a minimum “B” (3.00) overall Theatre GPA to continue in the major. Fifty percent of graduate course work must be at the 6000 level. Theatre courses with grades of less than "C" will not be counted toward degree requirements. Continuation in the MA program requires a positive annual evaluation. All graduate students must consult with an area adviser. All MA students must successfully complete a written thesis. The thesis proposal must be approved in advance.

Course Schedule—Theatre Studies Concentration

Year 1
Fall—10 Credit Hours

- THE 5910 - Research Methods in Theatre 3 Credit Hours
- TPA 5405 - Theatre Management 3 Credit Hours or elective
- 5000 level Theatre elective 3 Credit Hours
- THE 5945L - Theatre Practicum I 1 Credit Hours

Spring—10 Credit Hours

- 6000-level Theatre electives 3 Credit Hours
THE 5205 - American Theatre 3 Credit Hours
THE 5307 - Contemporary Theatre Practice 3 Credit Hours
THE 5946L - Theatre Practicum II 1 Credit Hours

Year 2
Fall—10 Credit Hours
THE 6086C - Careers in Professional Theatre 3 Credit Hours
THE 6507 - Dramatic Theory and Criticism 3 Credit Hours
THE 6947L - Theatre Practicum III 1 Credit Hours
THE 6971 - Thesis 3 Credit Hours

Spring—9 Credit Hours
6000-Level Theatre Elective 3 Credit Hours
THE 6971 Thesis 6 Credit Hours

Course Schedule—Musical Theatre Concentration
Summer 1—10 Credit Hours
TPP 5754 - Musical Theatre Voice I 2 Credit Hours
TPP 6344 - Musical Theatre Directing 3 Credit Hours
TPP 5554C - Musical Theatre Dance I 2 Credit Hours
THE 5910 - Research Methods in Theatre 3 Credit Hours

Summer 2—7 Credit Hours
TPP 6755 - Musical Theatre Voice II 2 Credit Hours
TPP 6933 - Acting Studio V 2 Credit Hours
THE 6756 - Methods of Teaching Drama 3 Credit Hours

Academic Year Courses—22 Credit Hours
THE 5945L - Theatre Practicum I 1 Credit Hours
THE 5946L - Theatre Practicum II 1 Credit Hours
THE 6947L - Theatre Practicum III 1 Credit Hours
THE 6918 Directed Research 1 Credit Hour
THE 6971 Thesis 9 Credit Hours
Electives 9 Credit Hours

Elective Courses—9 Credit Hours

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
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https://graduate.ucf.edu/funding/

Theatre MFA

College
College of Arts and Humanities

Department
Department of Theatre

Program Website
http://performingarts.cah.ucf.edu/study/#theatregrad/

Program Handbook
Theatre MFA

Program Contact Information
Julia Listengarten PhD
Professor
julia.listengarten@ucf.edu
Telephone: 407-823-3858
Performing Arts Center (PAC) T220

Is this program available 100% online?
No

Program Description
The Theatre MFA program is currently not accepting applications for the Theatre for Young Audiences, Design, and Musical Theatre tracks. Please contact the program for more information.

The Theatre MFA program with tracks in Acting, Design, Themed Experience, Musical Theatre, and Theatre for Young Audiences is designed for students who demonstrate the artistic and intellectual capacity and evidence of professional promise to pursue careers in professional and academic theatre. Please scroll to the bottom of this page for further details on these Tracks.

The program is a highly selective, rigorous, three-year professional training program emphasizing both theatre theory and practice. The MFA degree is rooted in the belief that classroom study and practical experience in the theatre are of equal and complementary value. The production aspect, therefore, is integrated into the curriculum because it is the principal means available for the coordination of all the elements of dramatic art. We seek to pursue all possible ways to fuse production responsibilities with classroom work effectively for the purpose of teaching and training.

Students, in addition to becoming highly trained theatre practitioners, must also demonstrate the ability to understand the conceptual basis of their art and to be able to articulate that understanding to others. Toward this end, the department will recruit and develop graduate students who can serve, along with faculty and staff, as role models for undergraduate students whose BA and BFA programs of study are integrally connected with the graduate program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit theAdmissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.
Graduate School Contact
Saudia Yassin
gradadmissions@ucf.edu
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Institution Codes
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Theatre MFA - Theatre MFA, Acting Track

College
College of Arts and Humanities

Department
Department of Theatre

Track Website
http://performingarts.cah.ucf.edu/study/#theatregrad/

Track Handbook
Theatre MFA, Acting Track
Track Contact Information

Michael Wainstein MFA
Professor
Michael.Wainstein@ucf.edu
Telephone: 407-823-2519
Performing Arts Center (PAC) M255D

Julia Listengarten PhD
Professor
julia.listengarten@ucf.edu
Telephone: 407-823-3858
Performing Arts Center (PAC) T220

Is this track available 100% online?

No

Track Description

The Master of Fine Arts in Acting Track is a NAST-accredited pre-professional actor training program. Through intensive practical and theoretical classwork and production experience, students are prepared physically and vocally as artists to succeed in this demanding profession.

The program is a highly selective, rigorous, three-year professional training program emphasizing both theatre theory and practice. The first two years are spent on campus in classes and performing in Theatre UCF productions. The third year is spent as a resident company member at Orlando Shakes where students perform in mainstage and theatre for young audience productions, teach, study and assist with the operations of the theatre.

Students, in addition to becoming highly trained theatre practitioners, must also demonstrate the ability to understand the conceptual basis of their art and to be able to articulate that understanding to others. Toward this end, the department will recruit and develop graduate students who can serve, along with faculty and staff, as role models for undergraduate students whose BA and BFA programs of study are integrally connected with the graduate program.

The Acting track of the Theatre MFA program requires 47 credit hours of core and specialization courses that follow a suggested yearly schedule in addition to a thesis and an internship. The electives can be chosen (with instructor approval) from existing courses in the MFA tracks in Acting, Musical Theatre, Design, and Theatre for Young Audiences. Because allowed electives are both two- and three-credit-hour courses, the course of study shows a sliding number of credits for electives. Consequently, although the 61 credit hours are required, a student may graduate with as many as 65 credit hours.

Total Credit Hours Required: 61 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

General Entrance and Area Specific Prerequisites - Students applying for entrance into the MFA Programs must have successfully completed the following undergraduate courses or their equivalent:

- Acting - Script Analysis or Play Analysis, Theatre History or Dramatic Literature, Stage Voice, Stage Movement, Advanced Acting.
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A 3.0 Theatre GPA in previous study.
- The GRE is not required for admission to this program.
- An essay stating applicant's academic and professional goals.
- Résumé.
- An 8 X 10 headshot.
- Three letters of recommendation.
- An audition.
- Interview.
- Complete the general entrance and area-specific undergraduate prerequisites or their equivalents.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

**Auditions, Portfolio, and Interview Requirements:**

- **MFA Acting** applicants are required to participate in an interview and perform two contrasting monologues.

For more details about these requirements, contact the School of Performing Arts at [https://performingarts.cah.ucf.edu](https://performingarts.cah.ucf.edu)

**General Entrance and Area Specific Prerequisites:** Students applying for entrance into the MFA Programs must have successfully completed the following undergraduate courses or their equivalent:

- **Acting** - Script Analysis or Play Analysis, Theatre History, Dramatic Literature, Stage Voice, Stage Movement, Advanced Acting.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

No part-time students will be admitted into the MFA program.

**Graduate Application Deadlines**

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<th>Acting MFA</th>
<th>*Fall Priority</th>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**The Fall 2022 Application Deadline has been extended until May 1, 2022.**

**Graduate School Contact**

**Saudia Yassin**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Core
6 Total Credits

- Complete the following:
  - THE5910 - Research Methods in Theatre (3)
  - TPP5087C - Theatre Careers in Performance (3)

Specialization
41 Total Credits

- Earn at least 41 credits from the following types of courses:
  - In the "Track Details" Section below, a suggested course schedule is provided. Students will work directly with their advisor in creating a plan of study for this requirement.

Thesis
6 Total Credits

- Earn at least 6 credits from the following:
  - THE6971 - Thesis (1 - 99)

Internship
8 Total Credits

- Earn at least 8 credits from the following:
  - THE6948 - Professional Internship (4)

Transfer and Residency
0 Total Credits

- Students who do not hold a master's degree can usually transfer up to nine semester hours into this program. Ordinarily, students holding completed MS or MA degrees will not be admitted into the MFA program. Each case will be evaluated on an individual basis. Final acceptance and number of credits to be transferred will be determined by a graduate faculty committee. A minimum of 51 credits must be taken at the University of Central Florida. A student without an earned master's degree must complete a residency requirement of at least five semesters with at least four of them being full-time, consecutive semesters. Summer session may be counted toward the four consecutive semesters.

Independent Learning
0 Total Credits

- The Independent Learning Requirement is met by successful completion of a master's thesis.

Grand Total Credits: 61
Track Details

Students must maintain a minimum "B" (3.0) overall Theatre grade point average to continue in the major. Theatre courses with grades of less than "C" will not be counted toward degree requirements. All Acting program students are required to audition for all fall and spring productions and must accept the roles assigned. A student's continuation in the program is contingent upon positive end-of-semester evaluations. Students must successfully complete internship and thesis requirements. The thesis proposal must be approved in advance.

Of the 61 hours required for the Acting track, the following courses constitute the MFA Graduate Core Curriculum. See the Course Schedule below for an understanding of how the curricular elements are articulated.

Course Schedule

Year 1
Fall: 10 Credit Hours
- TPP 5156C - Acting Studio I 3 Credit Hours
- TPP 5515 - Movement Studio I 2 Credit Hours
- TPP 5715C - Stage Voice I 2 Credit Hours
- THE 5910 - Research Methods in Theatre 3 Credit Hours

Spring: 11 Credit Hours
- TPP 5157C - Acting Studio II 3 Credit Hours
- TPP 5516C - Movement Studio II 2 Credit Hours
- TPP 5716C - Stage Voice II 2 Credit Hours
- THE 5307 - Contemporary Theatre Practice 3 Credit Hours
- TPP 5278C - Musical Theatre Lab 1 Credit Hours

Year 2
Fall: 13 Credit Hours
- TPP 6146C - Acting Studio III 3 Credit Hours
- TPP 6517 - Movement Studio III 2 Credit Hours
- TPP 6717C - Stage Voice III 2 Credit Hours
- THE 6507 - Dramatic Theory and Criticism 3 Credit Hours
- TPP 5087C - Theatre Careers in Performance 3 Credit Hours

Spring: 9 Credit Hours
- TPP 6518C - Movement Studio IV 2 Credit Hours
- TPP 6718C - Stage Voice IV 2 Credit Hours
- TPP 6267 - Acting Studio IV 2 Credit Hours
- THE 5205 - American Theatre 3 Credit Hours

Year 3
Fall: 9 Credit Hours
- THE 6948 - Professional Internship 4 Credit Hours
- THE 6971 - Thesis 3 Credit Hours
- TPP 6186C - Advanced Scene Study 2 Credit Hours

Spring: 9 Credit Hours
- THE 6948 - Professional Internship 4 Credit Hours
- THE 6971 - Thesis 3 Credit Hours
- TPP 6933 - Acting Studio V 2 Credit Hours

Financial Information

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http://finaid.ucf.edu
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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Theatre MFA - Theatre MFA, Theatre for Young Audiences Track

College
College of Arts and Humanities

Department
Department of Theatre

Track Website
http://performingarts.cah.ucf.edu/study/#theatregrad/

Track Handbook
Theatre MFA, Theatre for Young Audiences Track

Track Contact Information

Vandy Wood
Associate Professor
vandy@ucf.edu
Telephone: 407-823-2862
Performing Arts Center (PAC) T235

Julia Listengarten PhD
Professor
julia.listengarten@ucf.edu
Telephone: 407-823-3858
Performing Arts Center (PAC) T220

Is this track available 100% online?
No
Track Description

We are not accepting applications for Fall 2022. Our next recruitment cycle begins in Fall 2022 for Fall 2023 admission.

The University of Central Florida offers one of the nation’s most distinct graduate training programs in Theatre for Young Audiences. The program offers courses such as Puppetry, Storytelling and Methods of teaching Drama and the MFA in Theatre for Young Audiences is partnered with Orlando Repertory Theatre, a professional Theatre for Young Audiences in vibrant downtown Orlando.

The Master of Fine Arts in Theatre for Young Audiences track is designed for students who demonstrate the artistic and intellectual capacity and evidence of professional promise to pursue careers in professional and academic theatre. This track is for all theatre disciplines and offers opportunities to create work with and for youth, including community-based applied theatre, teaching artistry and education, devised theatre and directing.

The program is a highly selective, rigorous, three-year professional training program emphasizing both theatre theory and practice. The MFA degree is rooted in the belief that classroom study and practical experience in the theatre are of equal and complementary value.

Students, in addition to becoming highly trained theatre practitioners, must also demonstrate the ability to understand the conceptual basis of their art and to be able to articulate that understanding to others. Toward this end, the department will recruit and develop graduate students who can serve, along with faculty and staff, as role models for undergraduate students whose BA and BFA programs of study are integrally connected with the graduate programs. Assistantships also offer students teaching opportunities in the theatre department.

The Theatre for Young Audiences track of the Theatre MFA program requires 6 credit hours of core courses and 26 credit hours of specialization courses to be completed following a yearly schedule in addition to a thesis and an internship. The electives can be chosen (with instructor approval) from existing courses in the MFA tracks in Acting and Theatre for Young Audiences. Because allowed electives are both two- and three-credit-hour courses, the course of study shows a sliding number of credits for electives. Consequently, although 61 credit hours are required, a student may graduate with as many as 65 credit hours. Students earning the degree are expected to demonstrate proficiency in their area of specialization.

Total Credit Hours Required: 61 Credit Hours Minimum beyond the Bachelor’s Degree

Track Prerequisites

General Entrance and Area Specific Prerequisites—Students applying for entrance into the MFA Programs must have successfully completed the following undergraduate courses or their equivalent:

- **Theatre for Young Audiences**—Script Analysis or Play Analysis, Directing I, Theatre History or Dramatic Literature, as well as experience in some area of theatre and/or education.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Undergraduate degree in Theatre or equivalent.
- A 3.0 Theatre GPA.
- Essay stating applicant’s academic and professional goals.
- Résumé.
- An 8 X 10 headshot.
- Three letters of recommendation.
- An audition.
- Interview.
- Complete the general entrance and area specific undergraduate prerequisites or their equivalents.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Auditions, Portfolio, and Interview Requirements:

- MFA Theatre for Young Audiences applicants are required to participate in an onsite interview and students must either audition (perform two contrasting monologues, not to exceed three minutes total) or give a creative presentation.

For more details about these requirements, contact the School of Performing Arts at https://performingarts.cah.ucf.edu

General Entrance and Area Specific Prerequisites—Students applying for entrance into the MFA Programs must have successfully completed the following undergraduate courses or their equivalent:

- Theatre for Young Audiences—Script Analysis or Play Analysis, Directing I, Theatre History or Dramatic Literature, as well as experience in some area of theatre and/or education.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant’s abilities, past performance, recommendations, match of this program and faculty expertise to the applicant’s career/academic goals, and the applicant’s potential for completing the degree.

No part-time students will be admitted into the MFA program.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Theatre for Young Audiences MFA</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core
6 Total Credits

- Complete the following:
  - THE5910 - Research Methods in Theatre (3)
  - THE6086C - Careers in Professional Theatre (3)

Specialization
26 Total Credits

- Complete the following:
  - THE6756 - Methods of Teaching Drama (3)
  - THE5385 - Dramatic Literature for Children (3)
  - TPP5386C - Design Concepts for Youth Theatre (3)
  - THE6726 - Advanced TYA Seminar (3)
  - TPP5289C - Acting Methodologies (2)
  - THE6507 - Dramatic Theory and Criticism (3)
  - TPP6216C - Theatre for Young Audiences Tour (3)
  - TPP6247 - Theatre for Social Change (3)

Elective Courses
11 Total Credits

- Earn at least 11 credits from the following:
  - TPP6686 - Playwriting for Young Audiences (3)
  - TPP5246C - Circus Arts (2)
  - TPA5885C - Puppetry (2)
  - TPP5125C - Improvisation Studio (2)
  - TPP5248C - Storytelling as a Theatrical Art Form (2)
  - TPP5935C - Contemporary Practices in Youth Theatre (2)

Thesis
6 Total Credits

- Earn at least 6 credits from the following:
  - THE6971 - Thesis (1 - 99)

Internship
12 Total Credits

- Complete 1 of the following
  - All Internship - 12 Credit Hours
  - Earn at least 12 credits from the following:
    - THE6946 - Internship (1 - 99)
  - Internship/Elective Combo Option - 12 Credit Hours
  - Earn at least 12 credits from the following types of courses:
    - If students decide to only take the minimum 6 internship credits, the remaining 6 credits must be taken in the electives area.

Examination
0 Total Credits

- A comprehensive departmental Theatre exam is administered to the MFA students in the Theatre for Young Audiences Track at the end of their course work. The department allows two attempts at a comprehensive exam.

Transfer and Residency
0 Total Credits

- Students who do not hold a master's degree can usually transfer up to nine semester hours into this program. Ordinarily, students holding completed MS or MA degrees will not be admitted into the MFA program. Each case will be evaluated on an individual basis. Final acceptance and number of credits to be transferred will be determined by a graduate faculty committee. A minimum of 51 credits must be taken at the University of Central Florida. A student without an earned master's degree must complete a residency requirement of at least five semesters with at least four of them being full-time, consecutive semesters. Summer session may be counted toward the four consecutive semesters.

Independent Learning
0 Total Credits

- The Independent Learning Requirement is met by successful completion of a master's thesis.

Grand Total Credits: 61
Track Details

Students must maintain a minimum "B" (3.0) overall Theatre grade point average to continue in the major. Theatre courses with grades of less than "C" will not be counted toward degree requirements. A student’s continuation in the program is contingent upon a positive annual evaluation. Students must successfully complete an internship, present a written journal documenting their experience and a thesis project. The thesis proposal must be approved in advance.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

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Theatre MFA - Theatre MFA, Themed Experience Track

College
College of Arts and Humanities

Department
Department of Theatre

Track Website
https://www.cah.ucf.edu/themed-experience/

Track Contact Information

Peter Weishar
Professor and Director of Themed Experience
Peter.Weishar@ucf.edu
Telephone: 407-823-0987
Performing Arts Center (PAC) T216

Is this track available 100% online?
No

Track Description

The Master of Fine Arts in Theatre offers a Themed Experience Track designed to teach the unique creative skills, processes and concepts utilized to design and produce themed environments such as theme parks, zoos, aquariums, themed retail, dining, museums, virtual worlds and exhibitions. This program will build upon the strength and diversity of UCF’s Theatre, Art, Design and Hospitality programs as well as the ideal location in Orlando, the international hub of the themed entertainment industry.

The Master of Fine Arts in Themed Experience track program offers a rigorous course of study of 61 credit hours minimum, culminating in a collaborative creative project and thesis as well as an industry or academic internship. Of the 61 credit hours required for the degree, 44-47 credit hours are required and core courses of which up to 12-15 credit hours are electives. There is a 6 credit hour thesis project and 8-11 hours of industry internship credits.

Total Credit Hours Required: 61 Credit Hours Minimum beyond the Bachelor's Degree

2021-2022 Graduate Catalog
Track Prerequisites

**General Entrance and Area Specific Prerequisites** Students applying for entrance into the MFA Programs must have successfully completed a bachelor's degree program from an accredited institution which UCF recognizes. Concentration or experience in the visual, written, or performing arts is preferred.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor's degree (BFA, BA, BS).
- A 3.0 GPA.
- The GRE is not required for admission to this program.
- A 500-750 word statement of interest.
- Three letters of recommendation.
- Portfolio comprised of visual art and design or creative written work. Work may be submitted in the video, digital images of artwork or writing samples. Consult the admissions committee if there are questions regarding format and appropriate submissions.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

For more details about these requirements, contact the School of Performing Arts at https://performingarts.cah.ucf.edu

**General Entrance and Area Specific Prerequisites** Students applying for entrance into the MFA Programs must have successfully completed a regionally accredited bachelor's degree program. Concentration or experience in the visual, written, or performing arts is preferred.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

TBD
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Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core
6 Total Credits

- Complete the following:
  - THE5910 - Research Methods in Theatre (3)
  - TPA6437 - Careers in Themed Experience (3)

Themed Experience Concentration
26 Total Credits

- Complete the following:
  - THE5288 - Period Costumes, Architecture and Decor I (3)
  - THE5289 - Period Costumes, Architecture and Decor II (3)
  - THE5945L - Theatre Practicum I (1)
  - TPA6187 - Themed Experience Seminar (3)
  - TPA5085C - Design Seminar for Theatre (2)
  - TPA6158 - Small Project Studio (3)
  - TPA6186 - Immersive Experience Studio (3)
  - TPA6188 - Visualizing Themed Environments (3)
  - TPA6921 - Collaborative Project Studio (3)
  - TPP5248C - Storytelling as a Theatrical Art Form (2)

Elective Courses
12 Total Credits

- Earn at least 12 credits from the following types of courses:
  - Choose 2 College of Arts and Humanities electives and 2 Rosen College of Hospitality electives: HMG Themed Entertainment Graduate courses (6 credit hours total) CAH Graduate level courses (6 credit hours total) Any other graduate-level courses may be permitted with school approval.

Internship
11 Total Credits

- Complete 1 of the following
  - Preferred Minimum
  - Earn at least 11 credits from the following:
    - THE6948 - Professional Internship (4)
    - Internship/Elective Combo (with permission of the program coordinator)
  - Complete all of the following
    - Earn at least 8 credits from the following:
      - THE6948 - Professional Internship (4)
    - Earn at least 3 credits from the following types of courses:
      - Students may take as few as 8 credit hours of internship with permission of the program coordinator, the remaining credits required for the degree may be taken as additional CAH or HMG electives.

Thesis
6 Total Credits

- Earn at least 6 credits from the following:
  - THE6971 - Thesis (1 - 99)

Critique and Evaluation
0 Total Credits

- A final critique and evaluation of creative work is administered to all MFA majors at the end of their course work. The department allows two attempts at the final critique and evaluation.

Transfer and Residency
0 Total Credits

- Students who do not hold a master's degree can usually transfer up to nine semester hours into this program. Ordinarily, students holding completed MS or MA degrees will not be admitted into the MFA program. Each case will be evaluated on an individual basis. Final acceptance and number of credits to be transferred will be determined by a graduate faculty committee. A minimum of 51 credits must be taken at the University of Central Florida. A student without an earned master's degree must complete a residency requirement of at least five semesters with at least four of them being full-time, consecutive semesters. Summer session may be counted toward the four consecutive semesters.

Independent Learning
0 Total Credits

- The Independent Learning Requirement is met by successful completion of a master's thesis.

Grand Total Credits: 61
Track Details

Candidates must demonstrate the ability to understand the conceptual basis of the themed experience and to be able to articulate that understanding to others.

Students must maintain a minimum "B" (3.00) overall Theatre GPA to continue in the major. All graduate course work must be at the 5000 level or above. Theatre courses with grades of less than "C" will not be counted toward degree requirements. Continuation in the MFA program requires a positive annual evaluation. All graduate students must consult with an area adviser. All MFA students must successfully complete a creative thesis project. The thesis project must be approved in advance.

Course Schedule

Year 1

Fall: 11 Credit Hours

- THE 5288 - Period Costumes, Architecture and Decor I [3 Credit Hours]
- THE 5910 - Research Methods in Theatre [3 Credit Hours]
- TPA 5085C - Design Seminar for Theatre [2 Credit Hours]
- TPA 6187 - Themed Experience Seminar [3 Credit Hours]

Spring: 9-10 Credit Hours

THE 5945L Theatre Practicum I may be taken either Year 1 or 2 of the spring semester.

- THE 5289 - Period Costumes, Architecture and Decor II [3 Credit Hours]
- THE 5945L - Theatre Practicum I [1 Credit Hours]
- TPA 6158 - Small Project Studio [3 Credit Hours]
- TPA 6188 - Visualizing Themed Environments [3 Credit Hours]

Year 2

Fall: 11 Credit Hours

- TPP 5248C - Storytelling as a Theatrical Art Form [2 Credit Hours]
- TPA 6186 - Immersive Experience Studio [3 Credit Hours]
- CAH or HMG Graduate Elective [3 Credit Hours]
- CAH or HMG Graduate Elective [3 Credit Hours]

Spring: 9-10 Credit Hours

THE 5945L Theatre Practicum I may be taken either Year 1 or 2 of the spring semester.

- THE 5945L - Theatre Practicum I [1 Credit Hours]
- TPA 6437 - Careers in Themed Experience [3 Credit Hours]
- TPA 6921 - Collaborative Project Studio [3 Credit Hours]
- CAH or HMG Graduate Elective [3 Credit Hours]

Year 3

Fall: 9-13 Credit Hours

- THE 6971 - Thesis [Credit Hours 3]

Spring: 3-13 Credit Hours

- THE 6971 - Thesis [Credit Hours 3]

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Themed Experience MS

College
College of Arts and Humanities

Department
College of Arts and Humanities Dean's Office

Program Website
https://www.cah.ucf.edu/themed-experience/

Program Contact Information
Peter Weishar
Professor and Director of Themed Experience
Peter.Weishar@ucf.edu
Telephone: 407-823-0987
Performing Arts Center (PAC) T216

Is this program available 100% online?
No

Program Description
The Master of Science in Themed Experience is designed to teach the unique creative skills, processes and concepts utilized to design and produce themed environments such as theme parks, zoos, aquariums, themed retail, dining, museums, virtual worlds and exhibitions.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- A statement of interest.
- Three letters of recommendation from former professors and/or professional individuals.
- Resume.
- Portfolio comprised of visual art and design or creative written work.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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2021-2022 Graduate Catalog
**Application Deadlines Notes**

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**TBD**
gradadmissions@ucf.edu
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Millican Hall 230
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Graduate Admissions

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PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core
6 Total Credits
- Complete the following:
  - THE5910 - Research Methods in Theatre (3)
  - TPA6437 - Careers in Themed Experience (3)

Themed Experience Concentration
15 Total Credits
- Complete the following:
  - TPA6158 - Small Project Studio (3)
  - TPA6186 - Immersive Experience Studio (3)
  - TPA6187 - Themed Experience Seminar (3)
  - TPA6188 - Visualizing Themed Environments (3)
  - TPA6921 - Collaborative Project Studio (3)

Restricted Elective/Internship Courses
12 Total Credits
- Complete all of the following
  - Students may choose from a course list of restricted electives and/or enroll in internships for a total of twelve (12) hours of elective credit. Students must select one course each from the College of Engineering and Computer Science (CECS) and the Rosen College of Hospitality Management. Additional courses that qualify for elective credit are pulled from a variety of disciplines across several colleges at UCF.
  - Earn at least 12 credits from the following:
    - AMH5077 - Colloquium in Twentieth Century Tourism (3)
    - ARH5897 - Advanced Seminar in Art History (3)
    - ART5284 - Design Theory and Methods (3)
    - DIG5487 - Media Aesthetics (3)
    - DIG6136 - Design for Interactive Media (3)
    - DIG6432 - Transmedia Story Creation (3)
    - DIG6551 - Theory and Practice of Interactive Storytelling (3)
    - EIN5251 - Usability Engineering (3)
    - EIN6258 - Human Computer Interaction (3)
    - ENG6808 - Narrative Information Visualization (3)
    - ENT5619 - Creativity and Entrepreneurship (3)
    - FIL5422C - Experimental Cinema (3)
    - HIS5088 - Readings in Curation and Public History (3)
    - HIS6094 - Seminar in Curation and New Media (3)
    - HIS6096 - Seminar in Historic Preservation (3)
    - HMG6291 - Hospitality Entrepreneurship: Concept Creation to Capitalization (3)
    - HMG6449 - Smart Travel and Tourism (3)
    - HMG6476 - Feasibility Studies for the Hospitality/Tourism Enterprises (3)
    - HMG6533 - Hospitality/Tourism Industry Brand Management (3)
    - HMG6566 - Principles of Destination Marketing and Management (3)
    - HMG6757 - Advanced Theme Park and Attraction Management (3)
    - HMG6770 - Interdisciplinary Approach to Data Visualization (3)
    - IDS6267 - Understanding Humans for Modeling and Simulation (3)
    - THE5288 - Period Costumes, Architecture and Decor I (3)
    - THE5289 - Period Costumes, Architecture and Decor II (3)
    - THE6948 - Professional Internship (4)
    - TPA5346C - 3D Modeling for Theatre (2)
    - TPA5885C - Puppetry (2)
    - TPP5248C - Storytelling as a Theatrical Art Form (2)
  - Note: Acceptable Rosen electives begin with an HMG prefix and CECS courses are identified by an EIN prefix.

Critique and Evaluation
0 Total Credits
- A final critique and evaluation of student work is administered to all MS graduate students at the end of their course work. Students are permitted two attempts to successfully complete the final critique and evaluation.

Independent Learning
0 Total Credits
- Both the capstone course, TPA 6437 Careers in Themed Experience, and the internship provide independent learning experiences. The capstone course provides development of professional goals, knowledge, marketing materials, and skills for the active themed experience industry professional. The internship allows students to work with industry partners.

Grand Total Credits: 33
Program Details

Course Schedule

Year 1
Fall - 9 Credit Hours

- THE 5910 - Research Methods in Theatre 3 Credit Hours
- TPA 6158 - Small Project Studio 3 Credit Hours
- TPA 6187 - Themed Experience Seminar 3 Credit Hours

Spring - 9 Credit Hours

- TPA 6186 - Immersive Experience Studio 3 Credit Hours
- TPA 6188 - Visualizing Themed Environments 3 Credit Hours
- Restricted Elective/Internship (see list) 3 Credit Hours

Year 2
Fall - 9 Credit Hours

- TPA 6921 - Collaborative Project Studio 3 Credit Hours
- Restricted Elective/Internship (see list) 3 Credit Hours
- Restricted Elective/Internship (see list) 3 Credit Hours

Spring - 6 Credit Hours

- TPA 6437 - Careers in Themed Experience 3 Credit Hours
- Restricted Elective/Internship (see list) 3 Credit Hours

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

College of Business Administration

Accounting MSA

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Program Website
http://business.ucf.edu/degree/accounting-msa/

Program Handbook
Accounting MSA
Program Contact Information

Elizabeth Altiero Poziemski PhD
Lecturer
altiero@ucf.edu
Telephone: 407-823-4420
BA 1 - 436

Is this program available 100% online?
No

Licensure Disclosure
The MSA degree, along with the appropriate prerequisite work from an undergraduate degree in accounting, satisfies the education requirements to become a licensed CPA in the state of Florida. For information on how this program may prepare you for professional licensure, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CBA-Accounting-MSA.pdf.

Program Description
The Kenneth G. Dixon School of Accounting offers a Master of Science in Accounting (MSA) degree with a choice of specialization in either Assurance, Management, or Taxation. These programs prepare individuals for careers as professional accountants and consultants in public accounting industry, financial institutions, government, and nonprofit organizations.

Please scroll to the bottom of this page for further details on these Tracks.

Faculty members in the Kenneth G. Dixon School of Accounting emphasize independent learning in various ways throughout the MSA program. Cases and research projects that involve work outside the classroom are incorporated into all courses. The cases and projects are both individual and team prepared. Students are asked to do research that requires they utilize the library, internet, and resources other than the material provided by the professor. The results of independent research activity are presented in either a written report, case analysis or oral presentation. Students work to develop and enhance skills and competencies that will support them professionally throughout their careers. The approaches used in our courses encourage students toward life-long learning.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different admission requirements, start dates, and deadlines.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GMAT: UCF-College of Graduate Studies
TOEFL: 5233
ETS PPI: 5233

Financial Information
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gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Accounting MSA - Accounting MSA, Assurance Track

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Track Website
http://business.ucf.edu/degree/accounting-msa/

Track Handbook
Accounting MSA, Assurance Track

Track Contact Information

Elizabeth Altiero Poziemski PhD
Lecturer
altiero@ucf.edu
Telephone: 407-823-4420
BA 1 - 436

Is this track available 100% online?

No

Licensure Disclosure

The Assurance Track, along with the appropriate undergraduate prerequisite work, satisfies the education requirements to become a licensed CPA in the state of Florida. For information on how this program may prepare you for professional licensure, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CBA-Accounting-MSA.pdf.

Track Description

The Master of Science in Accounting (MSA), Assurance Track prepares individuals for careers as professional accountants and consultants in public accounting, industry, financial institutions, government, and nonprofit organizations. Students in this program will specialize in auditing and assurance skills used in a financial statement, compliance, internal control, and fraud contexts.

The MSA degree is awarded upon satisfactory completion of a minimum of 30 credit hours, and a final written exit exam. In the total program of study, a minimum of 21 credit hours of the coursework must be completed in accounting, tax, or business law courses. Students, with the assistance and approval of the program adviser, may select other courses that reflect their interests and career objectives.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree
Track Prerequisites

All business and accounting foundation core requirements can be completed after a student has gained admission to the program, but must be satisfied before graduate coursework can be undertaken. Applicants with a recent undergraduate accounting degree will likely have completed most, if not all, of the foundation prerequisite courses. Before taking any foundation courses, please have your undergraduate transcripts reviewed by the MSA Program Adviser.

Business Foundation Core—21 Credit Hours

The business foundation core is designed primarily to prepare students who hold a nonbusiness undergraduate degree (e.g., psychology, education, or engineering) for the accounting foundation core and graduate MSA coursework.

- ACG 2021 - Financial Accounting 3 Credit Hours
- ACG 2071 - Managerial Accounting 3 Credit Hours
- ECO 2013 - Macroeconomics 3 Credit Hours
- ECO 2023 - Microeconomics 3 Credit Hours
- QMB 3003 - Quantitative Business Tools 3 Credit Hours
- QMB 3200 - Quantitative Business Tools II 3 Credit Hours
- FIN 3403 - Business Finance 3 Credit Hours

Accounting Foundation Core—24 Credit Hours

The accounting foundation core is designed primarily to prepare students who hold either a nonbusiness undergraduate degree (e.g., psychology, education, or engineering) or an undergraduate business degree in a field other than accounting (e.g., finance, marketing, or management) for graduate MSA coursework.

- ACG 3131 - Intermediate Financial Accounting I 3 Credit Hours
- ACG 3141 - Intermediate Financial Accounting II 3 Credit Hours
- ACG 3361 - Cost Accounting I 3 Credit Hours
- ACG 4401 - Accounting Information Systems 3 Credit Hours
- ACG 4651 - Auditing 3 Credit Hours
- ACG 4803 - Advanced Issues in Financial Accounting 3 Credit Hours
- BUL 3130 - Legal and Ethical Environment of Business 3 Credit Hours
- TAX 4001 - Taxation of Business Entities and Transactions 3 Credit Hours

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- 3.0 GPA in upper-division accounting and tax courses.
- Official, competitive GMAT score taken within the last five years.
- The GRE is not required for admission to this program.
- Résumé.
- Goal Statement - Please answer the following questions:
  - How will obtaining a master’s degree aid you in achieving your short term (i.e., 3-5 year) career goals?
  - How do your past experiences and achievements relate to your interest in and capacity for graduate study in accounting?
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant’s degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Letters of recommendation are not required.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GMAT: UCF-College of Graduate Studies
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - ACG6185 - Financial Statement Analysis (3)
  - ACG6415 - Advanced Accounting Information Systems (3)
  - ACG6805 - Accounting Theory (3)
  - ACG6835 - Ethics and Professionalism in Accounting and Auditing (3)

Required Specialization Courses
6 Total Credits

- Complete the following:
  - ACG6636 - Advanced Auditing (3)
  - ACG6675 - Operational Auditing (3)

Elective Specialization Course
3 Total Credits

- Complete at least 1 of the following:
  - ACG6305 - Advanced Managerial Accounting (3)
  - ACG6685 - Fraud Auditing (3)
  - TAX5015 - Advanced Tax Topics (3)

Restricted Elective Courses
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  All tracks include 9 credit hours (3 courses) of restricted electives. MSA students can take additional ACG, TAX, or BUL courses as restricted electives (except for ACG 6425 and BUL 6444, which are not eligible for MSA credit). Most MBA electives may be taken as restricted electives. Please note that some of the MBA courses may be restricted to only those students enrolled within a specific MBA track. Up to three hours may be selected from outside the College of Business. Courses outside the College of Business must be selected with the student's area of interest and/or career objectives in mind and with the approval of the program adviser.

Comprehensive Examination
0 Total Credits

- Satisfactory completion of an end-of-program comprehensive written examination is required. The MSA program does not require a thesis.

Grand Total Credits: 30

Track Details

Students must maintain a 3.0 GPA in the accounting foundation core. Students must earn a grade of "B-" (2.75) or higher in any undergraduate course taken after completion of the Bachelor's degree in order for that course to count as a prerequisite in or to fulfill an admissions requirements for the MSA degree.

5000-level courses taken in the undergraduate career that are used to earn the undergraduate accounting degree cannot be transferred into the MSA degree program.
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The section Financial Information of the Graduate Catalog is another key resource.

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Fellowship Information
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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Accounting MSA - Accounting MSA, Management Track

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Track Website
http://business.ucf.edu/degree/accounting-msa/

Track Handbook
Accounting MSA, Management Track

Track Contact Information

Elizabeth Altiro Poziemski PhD
Lecturer
altiero@ucf.edu
Telephone: 407-823-4420
BA 1 - 436

Is this track available 100% online?
No

Licensure Disclosure
The Management Track, along with the appropriate undergraduate prerequisite work, satisfies the education requirements to become a licensed CPA in the state of Florida. For information on how this program may prepare you for professional licensure, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CBA-Accounting-MSA.pdf.

Track Description
The Master of Science in Accounting (MSA), Management Track prepares individuals for careers as professional accountants and consultants in public accounting, industry, financial institutions, government, and nonprofit organizations. Students in this program will specialize in the use of accounting data to make managerial decisions, monitor operations, manage an effective control environment, and design effective compensation systems.

The MSA degree is awarded upon satisfactory completion of a minimum of 30 credit hours, and a final written exit exam. In the total program of study, a minimum of 21 credit hours of the coursework must be completed in accounting, tax, or business law courses. Students, with the assistance and approval of the program adviser, may select other courses that reflect their interests and career objectives.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree
**Track Prerequisites**

All business and accounting foundation core requirements can be completed after a student has gained admission to the program, but must be satisfied before graduate MSA coursework can be undertaken. Applicants with a recent undergraduate accounting degree will likely have completed most, if not all, of the foundation prerequisite courses. Before taking any foundation courses, please have your undergraduate transcripts reviewed by the MSA Program Adviser.

**Business Foundation Core—21 Credit Hours**

The business foundation core is designed primarily to prepare students who hold a nonbusiness undergraduate degree (e.g., psychology, education, or engineering) for the accounting foundation core and graduate MSA coursework.

- ACG 2021 - Financial Accounting 3 Credit Hours
- ACG 2071 - Managerial Accounting 3 Credit Hours
- ECO 2013 - Macroeconomics 3 Credit Hours
- ECO 2023 - Microeconomics 3 Credit Hours
- QMB 3003 - Quantitative Business Tools I 3 Credit Hours
- QMB 3200 - Quantitative Business Tools II 3 Credit Hours
- FIN 3403 - Business Finance 3 Credit Hours

**Accounting Foundation Core—24 Credit Hours**

The accounting foundation core is designed primarily to prepare students who hold either a nonbusiness undergraduate degree (e.g., psychology, education, or engineering) or an undergraduate business degree in a field other than accounting (e.g., finance, marketing, or management) for graduate MSA coursework.

- ACG 3131 - Intermediate Financial Accounting I 3 Credit Hours
- ACG 3141 - Intermediate Financial Accounting II 3 Credit Hours
- ACG 3361 - Cost Accounting I 3 Credit Hours
- ACG 4401 - Accounting Information Systems 3 Credit Hours
- ACG 4651 - Auditing 3 Credit Hours
- ACG 4803 - Advanced Issues in Financial Accounting 3 Credit Hours
- BUL 3130 - Legal and Ethical Environment of Business 3 Credit Hours
- TAX 4001 - Taxation of Business Entities and Transactions 3 Credit Hours

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- 3.0 GPA in upper-division accounting and tax courses.
- Official, competitive GMAT score taken within the last five years.
- The GRE is not required for admission to this program.
- Résumé.
- Goal Statement - Please answer the following questions:
  - How will obtaining a master's degree aid you in achieving your short term (i.e., 3-5 year) career goals?
  - How do your past experiences and achievements relate to your interest in and capacity for graduate study in accounting?
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant’s degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Letters of recommendation are not required.

**Graduate Application Deadlines**

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Graduate School Contact

Mike Burke
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GMAT: UCF-College of Graduate Studies
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - ACG6185 - Financial Statement Analysis (3)
  - ACG6415 - Advanced Accounting Information Systems (3)
  - ACG6805 - Accounting Theory (3)
  - ACG6835 - Ethics and Professionalism in Accounting and Auditing (3)

Required Specialization Courses
6 Total Credits

- Complete the following:
  - ACG6305 - Advanced Managerial Accounting (3)
  - ACG6675 - Operational Auditing (3)

Elective Specialization Course
3 Total Credits

- Complete at least 1 of the following:
  - BUL5332 - Advanced Business Law Topics (3)
  - TAX5015 - Advanced Tax Topics (3)

Restricted Elective Courses
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  All tracks include 9 credit hours (3 courses) of restricted electives. MSA students can take additional ACG, TAX, or BUL courses as restricted electives (except for ACG 6425 and BUL 6444, which are not eligible for MSA credit). Most MBA electives may be taken as restricted electives. Please note that some of the MBA courses may be restricted to only those students enrolled within a specific MBA track. Up to three hours may be selected from outside the College of Business. Courses outside the College of Business must be selected with the student's area of interest and/or career objectives in mind and with the approval of the program adviser.

Comprehensive Examination
0 Total Credits

- Satisfactory completion of an end-of-program comprehensive written examination is required. The MSA program does not require a thesis.

Grand Total Credits: 30

Track Details

Students must maintain a 3.0 GPA in the accounting foundation core. Students must earn a grade of "B-" (2.75) or higher in any undergraduate course taken after completion of the Bachelor's degree in order for that course to count as a prerequisite in or to fulfill an admissions requirements for the MSA degree.

5000-level courses taken in the undergraduate career that are used to earn the undergraduate accounting degree cannot be transferred into the MSA degree program.
Financial Information
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Accounting MSA - Accounting MSA, Taxation Track

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Track Website
http://business.ucf.edu/degree/accounting-msa/

Track Handbook
Accounting MSA, Taxation Track

Track Contact Information
Elizabeth Altiero Poziemski PhD
Lecturer
altiero@ucf.edu
Telephone: 407-823-4420
BA 1 - 436

Is this track available 100% online?
No

Licensure Disclosure
The Taxation Track, along with the appropriate undergraduate prerequisite work, satisfies the education requirements to become a licensed CPA in the state of Florida. For information on how this program may prepare you for professional licensure, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CBA-Accounting-MSA.pdf.

Track Description
The Master of Science in Accounting (MSA), Taxation Track prepares individuals for careers as professional accountants and consultants in public, accounting industry, financial institutions, government, and nonprofit organizations. Students in this program will specialize in tax preparation, compliance, and research skills.

The MSA degree is awarded upon satisfactory completion of a minimum of 30 credit hours, and a final written exit exam. In the total program of study, a minimum of 21 credit hours of the coursework must be completed in accounting, tax, and business law courses. Students, with the assistance and approval of the program adviser, may select other courses that reflect their interests and career objectives.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree
**Track Prerequisites**

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**Business Foundation Core—21 Credit Hours**

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**Accounting Foundation Core—24 Credit Hours**

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- 3.0 GPA in upper-division accounting and tax courses.
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- Résumé.
- Goal Statement - Please answer the following questions:
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  - How do your past experiences and achievements relate to your interest in and capacity for graduate study in accounting?
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ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - ACG6185 - Financial Statement Analysis (3)
  - ACG6415 - Advanced Accounting Information Systems (3)
  - ACG6805 - Accounting Theory (3)
  - ACG6835 - Ethics and Professionalism in Accounting and Auditing (3)

Required Specialization Courses
9 Total Credits

- Complete the following:
  - TAX5015 - Advanced Tax Topics (3)
  - TAX6065 - Tax Research (3)
  - TAX6845 - Tax Planning and Consulting (3)

Restricted Elective Courses
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  All tracks include 9 credit hours (3 courses) of restricted electives. MSA students can take additional ACG, TAX, or BUL courses as restricted electives (except for ACG 6425 and BUL 6444, which are not eligible for MSA credit). Most MBA electives may be taken as restricted electives. Please note that some of the MBA courses may be restricted to only those students enrolled within a specific MBA track. Up to three hours may be selected from outside the College of Business. Courses outside the College of Business must be selected with the student’s area of interest and/or career objectives in mind and with the approval of the program adviser.

Comprehensive Examination
0 Total Credits

- Satisfactory completion of an end-of-program comprehensive written examination is required. The MSA program does not require a thesis.

Grand Total Credits: 30

Track Details

Students must maintain a 3.0 GPA in the accounting foundation core. Students must earn a grade of "B-" (2.75) or higher in any undergraduate course taken after completion of the Bachelor's degree in order for that course to count as a prerequisite in or to fulfill admissions requirements for the MSA degree.

5000-level courses taken in the undergraduate career that are used to earn the undergraduate accounting degree cannot be transferred into the MSA degree program.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Business Administration MBA

College
College of Business Administration

Department
College of Business Administration Dean's Office

Program Website
http://www.ucfmba.ucf.edu

Program Contact Information

Executive & Professional MBA
Robin Hofler
Robin.Hofler@ucf.edu

Evening MBA
Kelley Dietrich
cbagrad@ucf.edu

Is this program available 100% online?
No
**Program Description**

The College of Business Master of Business Administration (MBA) degree is accredited by AACSB International and offers four options for study: An Executive MBA, the college's flagship MBA, taught at the UCF Downtown campus; a Professional Part-Time MBA taught at the UCF Downtown campus and regional campuses; a Professional Full-Time MBA taught at the UCF Downtown campus; and a part-time Evening MBA taught at the main campus.

Please scroll to the bottom of this page for further details on these Tracks.

The MBA program allows students to apply advanced theoretical concepts and knowledge from all functional areas of business through an analytical, decision-making process that focuses on solving practical problems. Students in the MBA program also learn to efficiently access, retrieve, and analyze information through technology. The program promotes the use of networking, leadership, and interpersonal competencies to develop and sustain effective relationships with peers, and to create an appreciation for the value of a diverse workforce.

The Master’s in Business Administration requires a total of 39 credit hours, of which 30 credit hours are professional core courses and 9 credit hours are electives.

**Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree**

The MBA curriculum provides a challenging and creative learning environment in an intensive program of study that has a broad-based administrative emphasis. Recognizing that the management methods of tomorrow may bear little resemblance to techniques in current use, the program emphasizes sound general principles and decision-making techniques that provide a base for continued learning and professional development.

**Program Prerequisites**

To help prepare you for the start of your MBA program, UCF offers online learning modules in accounting, economics, finance, and business statistics. These are offered through McGraw-Hill's Connect online learning management system and are designed to help you build the foundational knowledge needed to succeed in the MBA program at UCF. All MBA students are required to take the Initial Assessments for each of the subject areas, and possibly purchase the online learning modules depending on their Initial Assessment results. For more information on the MBA Foundation Prerequisites, click here: [https://business.ucf.edu/graduate-programs/](https://business.ucf.edu/graduate-programs/).

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

*Applicants must select a track in the MBA program. Tracks have different admission requirements, start dates and deadlines so please check the track for specific requirements.*

**Graduate School Contact**

**TBD**  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: UCF-College of Graduate Studies  
TOEFL: 5233  
ETS PPI: 5233

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**  
Millican Hall 120  
Telephone: 407-823-2827  
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Fax: 407-823-5241  
finaid@ucf.edu  
http://finaid.ucf.edu
**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**  
Telephone: 407-823-0127  
gradfellowship@ucf.edu  
https://funding.graduate.ucf.edu

**Business Administration MBA - Business Administration MBA, Evening Track**

**College**

College of Business Administration

**Department**

College of Business Administration Dean's Office

**Track Website**

http://www.ucfmba.ucf.edu

**Track Handbook**

Business Administration MBA, Evening Track

**Track Contact Information**

Kelley Dietrich  
cbagrad@bus.ucf.edu

**Is this track available 100% online?**

No

**Track Description**

The Evening MBA program allows students to apply advanced theoretical concepts and knowledge from all functional areas of business through an analytical, decision-making process that focuses on solving practical problems. Students in this program also learn to efficiently access, retrieve, and analyze information through technology.

The program promotes the use of networking, leadership, and interpersonal competencies to develop and sustain effective relationships with peers and to create an appreciation for the value of a diverse workforce.

The Evening MBA begins in the Spring 2022 and Fall 2022 terms with a ). Program highlights include:

- Evening course offerings to accommodate working professionals
- Choice of up to two elective options outside of the College of Business
- Part-time only enrollment (maximum of 6 credit hours per term)

**Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree**

The Evening MBA is targeted toward applicants who wish to obtain a MBA degree while continuing in their career path. This program offers evening courses. Students attend on a part-time basis only, taking 6 credit hours per term.

**Track Prerequisites**

You must show at least two years of full-time professional work experience.

Prior to being considered for admission into the Evening MBA program, applicants are required to complete a free online assessment in each of the functional areas of accounting, economics, finance, and business statistics. A score of 70 percent or higher in each area will be required in order to enroll in the associated graduate classes if accepted into the program. Applicants who do not earn a 70 percent or higher in each section and are being accepted into the program will be required to complete the online modules associated with the below 70 percent score as a restriction to admission. Click on the link for detailed information regarding the assessments and enrolling in the on-line modules. MBA Online Modules
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

THE APPLICATION AND ALL SUPPORTING DOCUMENTS (this includes all transcripts, essay, three letters of recommendation, resume, TOEFL or IELTS exam scores (if applicable) and international transcript evaluation (if applicable)) MUST BE RECEIVED AND UPDATED BY THE POSTED APPLICATION DEADLINE OF JULY 1, IN ORDER TO BE REVIEWED. Applications submitted after the deadline will be moved to the following fall semester. Supporting documents submitted after the deadline will cause an application to be considered incomplete by the deadline and denied as a result.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation. At least one recommendation must be from a current or previous supervisor. Additional letters should be from professional sources: supervisors, professors, colleagues. No personal recommendations will be accepted. Please use the online recommendation system that is part of the online application to submit this requirement.
- Prepare a goal statement that answers the following questions:
  1. Describe what motivated you either professionally or personally to pursue a master's degree.
  2. Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.
  3. Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Upload your current resume to your application before submitting. You must show at least two years of full-time professional work experience, detailing your duties and responsibilities, and include start/end dates of employment.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign Language (TOEFL) is required if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Prior to being considered for admission into the Evening MBA program, applicants are required to complete a free online assessment in each of the functional areas of accounting, economics, finance, and business statistics. A score of 70 percent or higher in each area will be required in order to enroll in the associated graduate classes if accepted into the program. Applicants who do not earn a 70 percent or higher in each section and are being accepted into the program will be required to complete the online modules associated with the below 70 percent score as a restriction to admission. Click on the link for detailed information regarding the assessments and enrolling in the on-line modules. MBA Online Modules
- Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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2021-2022 Graduate Catalog
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<th>Dec 1</th>
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<td>International Applicants</td>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: UCF-College of Graduate Studies
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

MBA Professional Core I: Decision-Making Tools
18 Total Credits

- Complete all of the following
  - Complete the following:
    - ACG6425 - Managerial Accounting Analysis (3)
    - BUL5332 - Advanced Business Law Topics (3)
    - ECO6115 - Economic Analysis of the Firm (3)
    - ECO6416 - Applied Business Research Tools (3)
    - MAN6245 - Organizational Behavior and Development (3)
    - GEB6365 - International Business Analysis (3)
  - Term Offerings: ACG 6425 - Managerial Accounting Analysis 3 Credit Hours (*Spring only) BUL 5332 - Advanced Business Law Topics 3 Credit Hours (Fall only) ECO 6115 - Economic Analysis of the Firm 3 Credit Hours (Spring only) ECO 6416 - Applied Business Research Tools 3 Credit Hours (Fall only) MAN 6245 - Organizational Behavior and Development 3 Credit Hours (Spring only) GEB 6365 - International Business Analysis 3 Credit Hours (Spring only)
  - *Students who wish to sit for the CPA exam must substitute appropriate coursework for ACG 6425.

MBA Professional Core II: Decision Applications
12 Total Credits

- Complete all of the following
  - Complete the following:
    - FIN6406 - Strategic Financial Management (3)
    - MAR6816 - Strategic Marketing Management (3)
    - MAR6466 - Strategic Supply Chain and Operations Management (3)
    - MAN6721 - Applied Strategy and Business Policy (3)
  - Core I is a prerequisite for Core II courses. FIN 6406 and MAR 6816 must be completed prior to MAN 6721. MAR 6466 must be completed the semester after ECO 6416 is completed. Term Offerings: FIN 6406 - Strategic Financial Management 3 Credit Hours (Fall only) MAR 6816 - Strategic Marketing Management 3 Credit Hours (Fall only) MAR 6466 - Strategic Supply Chain and Operations Management 3 Credit Hours (Spring only) MAN 6721 - Applied Strategy and Business Policy 3 Credit Hours (grade of "B-" (2.75) or better is required) (Spring only)

MBA Electives
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  - Electives may include approved 5000- and 6000-level courses from the College of Business or approved courses taken outside of the College of Business. At least one course must come from within the College of Business, and a maximum of two courses or six credit hours can be taken outside the College of Business with permission from the Graduate Business Programs Office and the department offering the course prior to taking the course. Check all elective course prerequisites in the graduate catalog at www.graduatecatalog.ucf.edu.

Grand Total Credits: 39
Track Details

Evening MBA Schedule

All Core I courses must be completed prior to Core II courses with the exception of MAR 6466 and GEB 6365 being taken in the same semester, and the capstone course for the program (MAN 6721) must be taken after the completion of all Core I requirements and FIN 6406 and MAR 6816. MAR 6466 must be completed the semester after ECO 6416 is completed.

Year One:
- Fall: BUL 5332 and MAN 6245
- Spring: ECO 6115 and ACG 6425
- Summer: Elective #1

Year Two:
- Fall: ECO 6416 and Elective #2
- Spring: MAR 6466 and GEB 6365

Year Three:
- Fall: MAR 6816 and FIN 6406
- Spring: MAN 6721 and Elective #3

Required courses are only offered in the terms they are listed above. Any variance from this schedule will delay graduation.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
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Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Business Administration MBA - Business Administration MBA, Executive Track

College
College of Business Administration

Department
College of Business Administration Dean's Office

Track Website
http://www.ucfmba.ucf.edu

Track Handbook
Business Administration MBA, Executive Track

Track Contact Information
Robin Hofler
robin.hofler@ucf.edu
Telephone: 407-235-3913

2021-2022 Graduate Catalog
Track Description

The UCF Executive MBA (EMBA) is accredited by AACSB International and is the college's flagship MBA program. The EMBA program is designed to prepare experienced professionals for the challenges they will face as they work and advance in their careers, teaching them skills across all functional areas of business that will make them an increasingly valuable member of their organization.

The program is a limited enrollment, cohort-based program that allows participants to continue their full-time careers while earning an MBA degree.

- A 19-month program offered on the UCF Downtown Orlando campus.
- Limited class size, cohort program
- Classes meet, on average, one Friday and three Saturdays per month, 8:00am-5:00pm
- A week long International Residency
- Minimum of five years of professional work experience required; 10 years preferred
- Personal interview required for admission

Courses expose participants to new methods, concepts, and tools that will enhance their business and leadership skills. Innovative teaching methodologies such as team-based projects, interdisciplinary case studies, simulations, debate activities, and self-assessment exercises are used to enhance the learning experience. The EMBA also incorporates the interactions and backgrounds of the participants as an integral part of the learning experience.

All classes are held at the UCF Downtown Orlando campus. Our classrooms are specifically designed to provide the best in learning environments. The handicap accessible classrooms boast the latest in audio/video equipment with electrical hookup and wireless Internet access. With newly engineered acoustics, lighting and room design, every seat has an excellent view of the speaker and presentation. The UCF Executive MBA program has created the finest combination of skilled administrators, with leading faculty providing participants with a high level of personal attention from the moment they apply.

This program is a professional program with a market rate tuition and is considered a full-time program. The tuition is the same for Florida residents and nonresidents. Please visit business.ucf.edu/degree/ucf-mba/ for more information.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

Minimum of five years of professional work experience required; 10 years preferred.

To help prepare you for the start of your MBA program, UCF offers online learning modules in accounting, economics, finance, and business statistics. These are offered through McGraw-Hill's Connect online learning management system and are designed to help you build the foundational knowledge needed to succeed in the MBA program at UCF. All MBA students are required to take the Initial Assessments for each of the subject areas, and possibly purchase the online learning modules depending on their Initial Assessment results. For more information on the MBA Foundation Prerequisites, click here: https://business.ucf.edu/graduate-programs/.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Official transcripts from each college/university attended.
- The GRE is not required for admission to this program.
- Current Resume.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
  - Describe what motivated you either professionally or personally to pursue a master’s degree.
  - Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.
  - Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Three professional letters of recommendation or three e-mail addresses of recommenders. **One recommendation must be from a previous or current supervisor.**
- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor’s degree. We accept either World Education Services (WES) www.wes.org or Josef Silny www.jsilny.com/. Please request that your official transcripts be sent to UCF along with your transcript evaluation.
- If your native language is not English and you do not have a degree from a U.S. institution or English instruction institution, you will be required to submit a Test of English as a Foreign Language (TOEFL) score or an IELTS English Language Test score. For TOEFL a minimum score of 577 paper-based; 233 computer-based; or 91 Internet-based. For IELTS a minimum score of 7.0 is required. For more information on exams and locations, go to www.ets.org/toefl.

Review Process. Your application will be reviewed once all required documents are received. Assuming you meet our admission requirements, you will be contacted to schedule an interview. Admission decisions are made after the interview and review process are complete.

The GMAT is not required for Executive or Professional degree programs in the College of Business.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

Graduate Application Deadlines

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<th>*Fall Priority</th>
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<th>Spring</th>
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<td>Domestic Applicants</td>
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<td>Jul 1</td>
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</tbody>
</table>

The Executive MBA is taught at the UCF Downtown campus each fall term.

| International Applicants | Jan 15 | |

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Mike Burke
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: UCF-College of Graduate Studies
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
30 Total Credits

- Complete the following:
  - ECO6115 - Economic Analysis of the Firm (3)
  - ACG6425 - Managerial Accounting Analysis (3)
  - ECO6416 - Applied Business Research Tools (3)
  - FIN6406 - Strategic Financial Management (3)
  - MAN6245 - Organizational Behavior and Development (3)
  - MAR6816 - Strategic Marketing Management (3)
  - MAR6466 - Strategic Supply Chain and Operations Management (3)
  - BUL6444 - Law and Ethics (3)
  - GEB6365 - International Business Analysis (3)
  - MAN6721 - Applied Strategy and Business Policy (3)

Restricted Elective Courses
9 Total Credits

- Complete all of the following
  - Earn at least 9 credits from the following:
    - FIN6465 - Financial Analysis Seminar (3)
    - MAN6448 - Conflict Resolution and Negotiation (3)
    - MAN6296 - Executive Leadership (3)
  - Students take three graduate courses, selected by the program advisor. Approved graduate transfer courses may substitute for the MBA electives and can include non-business electives.

Grand Total Credits: 39

Track Details

International Residency

As part of the GEB 6365 - International Business Analysis course, EMBA students are required to participate in a week long international residency. Typically the trip includes 2 countries with visits to local and multinational companies, and immersion into the countries culture.

Capstone Course

The UCF MBA capstone course, MAN 6721 - Applied Strategy and Business Policy, is required for all MBA students. This capstone course integrates the various functional disciplines in business administration. It focuses on the theories and frameworks in the field of strategic management, and requires a minimum grade of "B-" (2.75).

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
grdfellowship@ucf.edu
https://funding.graduate.ucf.edu

Business Administration MBA - Business Administration MBA, Professional Track

2021-2022 Graduate Catalog
The Professional MBA (PMBA) combines the rigor and depth of a traditional MBA program and offers two scheduling options: students can attend part-time in the evening for 24 months so as not to interrupt their full-time career, or they can attend full-time during the day for 12 months.

The 24-month part-time PMBA is offered at the UCF Downtown Campus each summer. It is also offered at a regional campus location on a rotational basis most fall terms providing a convenient location to working professionals in Central Florida.

The 12-month full-time PMBA is offered at the UCF Downtown Campus each fall.

The PMBA enrolls a limited-size group of professionals from a variety of organizations and industries to come together and challenge their intellect, enhance their capabilities and broaden their perspectives while growing their professional network. The innovative curriculum equips program participants with the analytical tools, latest business techniques, and skills needed to succeed in today's competitive marketplace while honing their business knowledge, teamwork, critical thinking and decision making skills. The program integrates the students' professional experience allowing them to immediately apply newly-acquired knowledge on the job. PMBA faculty members who share their expertise and provide insights into real-world business issues use consultative teaching approaches combining lectures, case studies, discussion forums and presentations to maximize learning. Participants will also find a high level of personal attention from PMBA administrators from the moment they apply.

- 24-month part-time or 12-month full-time options
- Minimum 3 years of work experience required for the part-time PMBA
- Minimum 1-3 years of work experience OR earned graduate degree or currently enrolled in a graduate program required for the full-time PMBA
- Limited class size, cohort program
- Innovative curriculum (consultative and case-based applied approach)
- Personal interview required for admission

This program is a professional program with a market rate tuition. The tuition is the same for Florida residents and non-residents. Please visit https://business.ucf.edu/centers-institutes/executive-development-center/ucf-mba-comparison-page/ for more information.

This program is accredited by AACSB International.

**Track Prerequisites**

Minimum 3 years of work experience required for the part-time PMBA.

Minimum 1-3 years of work experience OR earned graduate degree or currently enrolled in a graduate program required for the full-time PMBA.

To help prepare you for the start of your MBA program, UCF offers online learning modules in accounting, economics, finance, and business statistics. These are offered through McGraw-Hill's Connect online learning management system and are designed to help you build the foundational knowledge needed to succeed in the MBA program at UCF. All MBA students are required to take the Initial Assessments for each of the subject areas, and possibly purchase the online learning modules depending on their Initial Assessment results. For more information on the MBA Foundation Prerequisites, click here: https://business.ucf.edu/graduate-programs/.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Official transcripts from each college/university attended.
- The GRE is not required for admission to this program.
- Current Resume.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
  - Describe what motivated you either professionally or personally to pursue a master’s degree.
  - Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.
  - Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Three professional letters of recommendation or three e-mail addresses of recommenders. One recommendation must be from a previous or current supervisor.
- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor’s degree. We accept either World Education Services (WES) www.wes.org or Josef Silny www.jsilny.com/. Please request that your official transcripts be sent to UCF along with your transcript evaluation.
- If your native language is not English and you do not have a degree from a U.S. institution or English instruction institution, you will be required to submit a Test of English as a Foreign Language (TOEFL) score or an IELTS English Language Test score. For TOEFL a minimum score of 577 paper-based; 233 computer-based; or 91 Internet-based. For IELTS a minimum score of 7.0 is required. For more information on exams and locations, go to www.ets.org/toefl.
- Review Process. Your application will be reviewed once all required documents are received. Assuming you meet our admission requirements, you will be contacted to schedule an interview. Admission decisions are made after the interview and review process are complete.

The GMAT is not required for Executive or Professional degree programs in the College of Business.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

Graduate Application Deadlines

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The PMBA (Part-Time and Full-Time) will be taught at the UCF Downtown Campus for both Summer and Fall 2022.

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Mike Burke  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions  

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112  

Institution Codes

GRE: 5233  
GMAT: UCF-College of Graduate Studies  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Required Courses
30 Total Credits

- Complete the following:
  - ECO6115 - Economic Analysis of the Firm (3)
  - ACG6425 - Managerial Accounting Analysis (3)
  - ECO6416 - Applied Business Research Tools (3)
  - FIN6406 - Strategic Financial Management (3)
  - MAN6245 - Organizational Behavior and Development (3)
  - MAR6816 - Strategic Marketing Management (3)
  - MAR6466 - Strategic Supply Chain and Operations Management (3)
  - BUL6444 - Law and Ethics (3)
  - MAN6721 - Applied Strategy and Business Policy (3)
  - GEB6365 - International Business Analysis (3)

Restricted Elective Courses
9 Total Credits

- Earn at least 9 credits from the following:
  - FIN6465 - Financial Analysis Seminar (3)
  - MAN6448 - Conflict Resolution and Negotiation (3)
  - MAN6296 - Executive Leadership (3)

Grand Total Credits: 39

Track Details

Capstone Course
The UCF MBA capstone course, MAN 6721 - Applied Strategy and Business Policy, is required for all MBA students. This capstone course integrates the various functional disciplines in business administration. It focuses on the theories and frameworks in the field of strategic management, and requires a minimum grade of "B-" (2.75).

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Business Administration PhD

College
College of Business Administration

Department
College of Business Administration Dean's Office

Program Website
http://business.ucf.edu/graduate-programs/
Program Contact Information

See individual tracks for contact information.

Is this program available 100% online?

No

Program Description

The Business Administration PhD program prepares students for careers in higher education and management. Students may choose from four tracks: Accounting, Finance, Management and Marketing. Please scroll to the bottom of this page for further details on these tracks.

The objective of the doctoral program in Business Administration is to prepare students for academic careers in higher education and management careers within profit and nonprofit organizations. Success in the program is judged by the student's understanding of the issues and methodologies essential to the advancement of knowledge.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline. Applicants must choose a track in this program. Track(s) may have different requirements and deadlines.

The next admission cycle for this program is Fall 2023.

Graduate School Contact

TBD
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: UCF-College of Graduate Studies
TOEFL: 5233
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Financial Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/
College of Business Administration

Department
College of Business Administration Dean's Office

Track Website
http://business.ucf.edu/graduate-programs/

Track Handbook
Business Administration PhD, Accounting Track

Track Contact Information
Khim Kelly PhD
Professor
Khim.Kelly@ucf.edu
Telephone: 407-823-2150
BA1 – 409E

Is this track available 100% online?
No

Track Description
The objective of the Accounting track in the Business Administration PhD program is to prepare students for academic careers at major research universities. Dixon School faculty guide student learning through a combination of coursework and hands-on research projects with the objective of contributing new insights to the field. Students immerse themselves in classic and cutting-edge research in accounting, theories drawn from psychology, economics and/or sociology as well as the methods used to discover and evaluate new ideas in the field. Success in the program is judged by the student's understanding of the issues and methodologies essential to the advancement of knowledge.

The program requires a full-time commitment on the part of the students supported by stipends, tuition waivers, health insurance options etc. as described in the Graduate Student Handbook and on the College of Graduate Studies website.

The Accounting track of the Business Administration PhD program requires 72 credit hours beyond the bachelor's degree. Students must meet prerequisite requirements of 18 credit hours, and then complete 18 credit hours of accounting core courses, 12 credit hours of research methods/tools courses, 9 credit hours of electives, and 15 credit hours of dissertation.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.
- Other: Previous publications and/or other relevant supporting documentation.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

Admission decisions are made based on faculty recommendations from the appropriate department or school. Admissions will generally be made only for the fall semester, every other year; however, exceptions may be made in some cases. All interested students should contact the program director for their track for information about applying to this program. The college strongly encourages applications from minority and diverse populations. Race, national origin, and gender are not used in the evaluation of students for admission into graduate and professional programs.

Graduate Application Deadlines

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2021-2022 Graduate Catalog
**Application Deadlines Notes**

The next available term for admission will be Fall 2023

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Saudia Yassin  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

- GRE: 5233  
- GMAT: UCF-College of Graduate Studies  
- TOEFL: 5233  
- ETS PPI: 5233

**Degree Requirements**

Prerequisites: Foundation Body of Knowledge  
18 Total Credits

- Earn at least 18 credits from the following types of courses:  
  In the Accounting track of the Business Administration PhD program, the foundation body of knowledge may be satisfied with a master's degree in Accounting, Business Administration, Taxation or its equivalent from an Association to Advance Collegiate Schools of Business (AACSB) accredited school that includes certain accounting courses deemed essential by the Accounting PhD coordinator. Alternatively, this requirement may be satisfied by courses approved by the School of Accounting's doctoral advisory committee.

**Required Courses**

30 Total Credits  
No Rules  
Accounting Core  
18 Total Credits

- Complete all of the following  
  - Earn at least 18 credits from the following:  
    - ACG7157 - Seminar in Archival Research in Accounting (3)  
    - ACG7399 - Seminar in Behavioral Accounting Research (3)  
    - ACG7826 - Seminar in the Social and Organizational Context of Accounting (3)  
    - ACG7885 - Research Foundations in Accounting (3)  
    - ACG7887 - Accounting Research Forum (1)  
  - ACG 6908 Directed Independent Study (2 credit hours) is also required NOTE: ACG 7887 - Accounting Research Forum is a 1 credit hour workshop that will be repeated over 4 semesters.

**Research Methods/Tools**

12 Total Credits

- Complete all of the following  
  - Earn at least 12 credits from the following:  
    - PSY6216C - Research Methodology (4)  
    - PSY6308C - Psychological Testing (4)  
    - PSY7217C - Advanced Research Methodology I (4)  
    - PSY7218C - Advanced Research Methodology II (4)  
    - PSY7219C - Advanced Research Methodology III (4)  
    - PSY7315 - Psychometric Theory and Practice (3)  
    - ECO6424 - Econometrics I (3)  
    - EDF7403 - Quantitative Foundations of Educational Research (3)  
    - EDF7405 - Quantitative Methods II (3)  
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)  
    - SYA6315 - Qualitative Research Methods (3)  
    - SYA6425 - Design and Conduct of Social Surveys (3)  

- The research tools requirement is intended to ensure a thorough exposure to research methods. All candidates are expected to demonstrate knowledge of statistical methods as well as usage of statistical packages, including design.
analysis, and interpretation of results. Research tools courses should be approved by the PhD Director. Examples of courses that will satisfy this requirement included above.

Elective Courses
9 Total Credits
No Rules
Restricted
3 Total Credits

- Complete all of the following
- Complete at least 1 of the following:
  - ACG7390 - Seminar in Managerial Accounting Research (3)
  - ACG7888 - Seminar in Critical Accounting and AIS (3)
  - ACG7917 - Advanced Research Methods in Accounting and Accounting Information Systems Research (3)
- Other accounting electives may be added as they are developed for the program.

Unrestricted
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  Students must take 6 credit hours in a minor/support area. Students must select a minimum of six credit hours in a unified area approved by the PhD Director. Each student’s program of study is individually tailored to accommodate interests whenever possible. This coursework may be developed from offerings in the following areas with the advice and consent of the respective departments and the advisory committee: Marketing Economics Political Science Psychology Gender Studies Management Sociology Environmental Studies Communication Philosophy Public Affairs

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  ACG 7980 Dissertation 15 credit hours (minimum)

Admission to Candidacy
0 Total Credits

- Students must complete a comprehensive candidacy examination that includes written and oral portions. Students must defend a written dissertation proposal in an oral examination conducted by the student’s advisory/dissertation committee. The final defense of the dissertation will also require an oral examination. Students officially enter candidacy when the following has been accomplished: Completion of all course work, except for dissertation hours. Successful completion of the comprehensive candidacy examination.

Teaching Requirement
0 Total Credits

- The requirements for the teaching component of the degree will be developed with the doctoral program director based on the student's experience. Normally, this requirement will be satisfied through teaching a minimum of three credit hours of class instruction under the direct supervision of a faculty member. As appropriate, students will also be required to attend teaching development workshops and seminars.

Independent Learning
0 Total Credits

- The dissertation serves as the independent learning experience.

Grand Total Credits: 72

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Business Administration PhD - Business Administration PhD, Finance Track

College

College of Business Administration

Department

College of Business Administration Dean's Office

Track Website

http://business.ucf.edu/graduate-programs/

Track Handbook

Business Administration PhD, Finance Track

Track Contact Information

Qinghai Wang PhD
Professor
Qinghai.Wang@ucf.edu
Telephone: 407-823-6453
BA 410

Is this track available 100% online?

No

Track Description

The Finance track in the Business Administration PhD program prepares students for careers in higher education and management within profit and nonprofit industries.

Success in the program is judged by the student's understanding of the issues and methodologies essential to the advancement of knowledge.

The Finance track of the Business Administration PhD program requires 72 credit hours beyond the bachelor's degree. Students must meet prerequisite requirements of 18 credit hours, and then complete 18 credit hours of finance core courses, 6 credit hours of a minor/support area, 12 credit hours of research methods/tools courses, 3 credit hours of electives, and 15 credit hours of dissertation.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Required courses for all students are indicated with an asterisk in the lists below. Specific courses from the foundation body of knowledge category are determined based on a student's background in consultation with the doctoral program coordinator. Required course work prior to beginning study includes successful completion of at least a two-course sequence of 6 credit hours of calculus and previous course work in economics, finance, and statistics. The program requires 27 hours of formal course work, exclusive of independent study, as well as 15 credit hours of dissertation research.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.
- Other: Previous publications and/or other relevant supporting documentation.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant’s degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

Admission decisions are made based on faculty recommendations from the appropriate department or school. Admissions will generally be made only for fall semester, every other year. All interested students should contact the program director for their track for information about applying to this program. The college strongly encourages applications from minority and diverse populations. Race, national origin, and gender are not used in the evaluation of students for admission into graduate and professional programs.

Graduate Application Deadlines

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Application Deadlines Notes

*The next available term for admission will be Fall 2023*

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: UCF-College of Graduate Studies
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Prerequisites—Foundation Body of Knowledge
18 Total Credits

- Earn at least 18 credits from the following types of courses:
  In the Finance track of the Business Administration PhD program, the foundation body of knowledge includes (a) the finance, accounting, statistics and economics common body of knowledge in a MBA degree or its equivalent and (b) graduate courses in financial management, investments, financial institutions and international finance. Alternatively, this requirement may be satisfied by courses deemed essential by the Finance track program coordinator in consultation with the PhD committee.

Required Courses
36 Total Credits
No Rules

2021-2022 Graduate Catalog
Finance Core
18 Total Credits

- Complete all of the following
  - Complete the following:
    - FIN7935 - Finance Research Forum (3)
    - FIN7808 - Introduction to the Theory of Finance (3)
    - FIN7807 - Corporate Finance Theory (3)
    - FIN7816 - Investment Theory (3)
    - FIN7845 - Empirical Methods I (3)
    - FIN7864 - Empirical Methods II (3)
  - Other courses as deemed acceptable by the doctoral program coordinator.

Minor/Support Area
6 Total Credits

- Complete the following:
  - ECO6118 - Microeconomic Theory I (3)
  - ECO7116 - Microeconomic Theory II (3)

Research Methods/Tools
12 Total Credits

- Complete all of the following
  - Earn at least 12 credits from the following:
    - ECO6403 - Mathematical Economics (3)
    - ECO6424 - Econometrics I (3)
    - ECO7426 - Econometrics II (3)
    - ECO6404 - Games and Economic Behavior (3)
    - Course Not Found
    - ACG7157 - Seminar in Archival Research in Accounting (3)
  - Other courses as deemed acceptable by the doctoral program coordinator.

Elective
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - Elective course approved by the doctoral program coordinator 3 Credit Hours

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - FIN 7980 - Dissertation 15 Credit Hours minimum

Admissions to Candidacy
0 Total Credits

- Students must complete a comprehensive candidacy examination that includes written and oral portions. Students must defend a written dissertation proposal in an oral examination conducted by the student's advisory/dissertation committee. Students officially enter candidacy when the following have been accomplished: Completion of all course work, except for dissertation hours. Successful completion of the comprehensive candidacy examination. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study. Students must defend a written dissertation proposal in an oral examination conducted by the faculty, at least one semester prior to their final dissertation defense. The final defense of the dissertation will also require an oral examination.

Teaching Requirement
0 Total Credits

- The requirements for the teaching component of the degree will be developed with the doctoral graduate program director based on the student’s experience. Normally, this requirement will be satisfied through teaching a minimum of three credit hours of class instruction under the direct supervision of a faculty member. As appropriate, students will also be required to attend teaching development workshops and seminars.

Independent Learning
0 Total Credits

- The dissertation serves as the independent learning experience.

Grand Total Credits: 72
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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gradfellowship@ucf.edu
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Business Administration PhD - Business Administration PhD, Management Track

College
College of Business Administration

Department
College of Business Administration Dean's Office

Track Website
http://business.ucf.edu/graduate-programs/

Track Handbook
Business Administration PhD, Management Track

Track Contact Information

Steven Whiting, PhD
Associate Professor
Steven.Whiting@ucf.edu
Telephone: 407-823-1714
BA1 339

Is this track available 100% online?
No
**Track Description**

The objective of the Management track in the Business Administration PhD program is to prepare students for academic careers at major research universities. Management Department faculty members help students understand current approaches to explaining and investigating management processes and facilitate research projects aimed at contributing new insights to the field. Our students immerse themselves in the timely and timeless lessons offered by management scholars, as well as the methods used to discover and evaluate new ideas. This training also provides our students with the knowledge and critical perspective necessary to be master educators. The Management program is designed to produce well-rounded members of our profession who are well prepared to contribute to the research, education, and service missions of the Management discipline.

The program requires a full-time commitment on the part of the students, allowing no time for secondary outside employment. Stipends, tuition waivers, health insurance options, described in the Graduate Student Handbook and on the College of Graduate Studies website, provide the financial resources that support this full-time status.

The Management track of the Business Administration PhD program requires 72 credit hours beyond the bachelor's degree. Students must meet prerequisite requirements of 18 credit hours, and then complete 18 credit hours of management core courses, 6 credit hours of a minor/support area, 12 credit hours of research methods/tools courses, 3 credit hours of electives, and 15 credit hours of dissertation.

**Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree**

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Three letters of recommendation.
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Admission decisions are made based on faculty recommendations from the appropriate department or school. Admissions will generally be made only for the fall semester, every other year. In evaluating applicants, the committee considers all materials submitted. This committee made up of our most research-active faculty, the program director, and program coordinator, considers favorably: past academic writing/projects, collaborative work with distinguished faculty, prior career success, standardized scores on the GMAT or GRE, and letter of intent. Given that our program is designed as an "immersion" into the academic inquiry, we look for applicants who demonstrate a level of intellectual curiosity that will drive their research efforts. GMAT/GRE scores should be competitive for full consideration. Generally, successful applicants score at or higher than the 50% ranking on both verbal and quantitative portions of the tests. Admissions are competitive, and standardized scores are often considerably higher than this. Consideration of candidates generally begins in mid-January and continues until we have the number of accepted offers we intend to accept. Generally, a cohort consists of 4-6 students. Our program supports students with interest in the primary areas of Strategic Management, Organizational Behavior, and Entrepreneurship. Letters of intent should reflect the particular area of interest the applicant is pursuing. The college strongly encourages applications from minority and diverse populations. Race, national origin, and gender are not used in the evaluation of students for admission into graduate and professional programs.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

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*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
Graduate School Contact

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GRE: 5233
GMAT: UCF-College of Graduate Studies
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Degree Requirements

Prerequisites: Foundation Body of Knowledge
18 Total Credits

- Earn at least 18 credits from the following types of courses:
  The foundation body of knowledge includes the common body of knowledge in an MBA degree or its equivalent from an AACSB-accredited or comparable school. This requirement may be satisfied with a master’s degree in Management or by courses deemed essential by the Management track program coordinator.

Required Courses
36 Total Credits
No Rules
Management Core
18 Total Credits

- Earn at least 18 credits from the following:
  - MAN7275 - Organizational Behavior (3)
  - MAN7207 - Organization Theory (3)
  - MAN7900 - Directed Readings in Management (3)
  - MAN7916 - Seminar in Management Research (1 - 99)
  - MAN7776 - Business-level Strategic Management (3)

Minor/Support Area
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  Students may select a minimum of six credit hours, typically within a unified area, approved by the student’s adviser and the program coordinator. Each student’s program of study is individually tailored to accommodate student interests, and often emphasizes additional training in research methodology necessary to produce high quality scholarly research.

Research Methods/Tools
12 Total Credits

- Complete all of the following
  - The research tools requirement is intended to ensure a thorough exposure to research methods. All candidates are expected to demonstrate knowledge of statistical methods as well as usage of statistical packages. This includes design, analysis, and interpretation of results. The student’s advisory committee and the program coordinator will recommend and/or approve specific courses for each student. Representative courses include, but are not limited to the following:
  - Earn at least 12 credits from the following:
    - PSY6216C - Research Methodology (4)
    - PSY7217C - Advanced Research Methodology I (4)
    - PSY7217C - Advanced Research Methodology I (4)
    - PSY7218C - Advanced Research Methodology II (4)
    - PSY7219C - Advanced Research Methodology III (4)
    - GEB7911 - Structural Equation Modeling for Business Research (3)
    - MAR7626 - Multivariate Analysis for Business Research (3)
    - EDF7427 - Psychometrics (3)
    - PAF7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis (3)
    - STA6237 - Nonlinear Regression (3)
    - STA6507 - Nonparametric Statistics (3)
    - STA6707 - Multivariate Statistical Methods (3)

Elective
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  Elective course approved by the faculty adviser 3 Credit Hours

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  MAN 7980 - Dissertation Research 15 Credit Hours minimum

Admission to Candidacy
0 Total Credits

- Students must complete a comprehensive candidacy examination that includes written and oral portions. This usually takes place near the end of coursework, in the late second year or early third year of the program. Students officially enter candidacy when the following have been accomplished: Completion of all course work, except for dissertation hours. Successful completion of the comprehensive candidacy examination. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study. Students must defend a written dissertation proposal in an oral examination conducted by the faculty, at least one semester prior to their final dissertation defense. The final defense of the dissertation will also require an oral examination.

Teaching Requirement
0 Total Credits

- The requirements for the teaching component of the degree will be developed with the doctoral graduate program director based on the student's experience. Normally, this requirement will be satisfied through teaching a minimum of three credit hours of class instruction under the direct supervision of a faculty member. As appropriate, students will also be required to attend teaching development workshops and seminars.

Independent Learning
0 Total Credits

- The dissertation satisfies the independent learning requirement.

Grand Total Credits: 72

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Business Administration PhD - Business Administration PhD, Marketing Track

College
College of Business Administration

Department
College of Business Administration Dean's Office

2021-2022 Graduate Catalog
Track Website
http://business.ucf.edu/graduate-programs/

Track Handbook
Business Administration PhD, Marketing Track

Track Contact Information
Xin He PhD
Associate Professor
Xin.He@ucf.edu
Telephone: 407-823-1329
BA2 308N

Is this track available 100% online?
No

Track Description
The objective of the Marketing track in the Business Administration PhD program is to prepare students for academic careers in higher education and management careers within profit and nonprofit organizations. Success in the program is judged by the student's understanding of the issues and methodologies essential to the advancement of knowledge.

The Marketing track of the Business Administration PhD program requires 72 credit hours beyond the bachelor's degree. Students must meet prerequisite requirements of 18 credit hours, and then complete 18 credit hours of marketing core courses, 9 credit hours of a minor/support area, 12 credit hours of research methods/tools courses, and 15 credit hours of dissertation.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Three letters of recommendation.
- Research Statement.
- Résumé.
- Other: Previous publications and/or other relevant supporting documentation.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.

Admission decisions are made based on faculty recommendations from the appropriate department or school. Admissions will generally be made only for fall semester, every other year. All interested students should contact the program director for their track for information about applying to this program. The college strongly encourages applications from minority and diverse populations. Race, national origin, and gender are not used in the evaluation of students for admission into graduate and professional programs.

Graduate Application Deadlines

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<th>Marketing</th>
<th>*Fall Priority</th>
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Application Deadlines Notes

The next available term for admission will be Fall 2023

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date. The department starts reviewing applications after the Fall Priority Deadline.
Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: UCF-College of Graduate Studies
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Prerequisites—Foundation Body of Knowledge
18 Total Credits

- Earn at least 18 credits from the following types of courses:
  In the Marketing track of the Business Administration PhD program, this requirement can be met with an approved Master's degree. Alternatively, this requirement may be satisfied by courses deemed essential by the department’s PhD coordinator in consultation with the PhD committee.

Required Course
39 Total Credits
No Rules
Marketing Core
18 Total Credits

- Complete all of the following
  - Earn at least 18 credits from the following:
    - MAR7575 - Seminar in Consumer Behavior (3)
    - MAR7638 - Seminar in Marketing Theory, Scaling, and Measurement (3)
    - MAR7666 - Seminar in Marketing Models I (1.5)
    - MAR7667 - Seminar in Marketing Models II (1.5)
    - MAR7807 - Seminar in Marketing Strategy I (1.5)
    - MAR7808 - Seminar in Marketing Strategy II (1.5)
    - MAR7919 - Research (1 - 99)

  - MAR 7638 may be substituted by an equivalent course as determined by the Department Chair in consultation with the PhD coordinator.

Minor/Support Area
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  A minimum of nine hours of course work is required in a minor/support area. The course work should be from a unified area and will be planned with the advice and consent of the department’s PhD coordinator in consultation with the PhD committee.

Research Methods/Tools
12 Total Credits

- Complete all of the following
  - Complete the following:
    - MAR7626 - Multivariate Analysis for Business Research (3)

  - Earn at least 9 credits from the following types of courses:
    The department’s doctoral advisory committee and the PhD Coordinator will determine the additional research tools courses. Additional courses approved by the PhD coordinator in consultation with the PhD committee 9 Credit Hours

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  MAR 7980 - Dissertation 15 Credit Hours minimum

Admission to Candidacy
0 Total Credits

- Students must successfully pass a readiness exam in the first summer. In the second summer of the program after course
work has been completed students must pass a comprehensive candidacy examination that includes written and oral portions. Students officially enter candidacy when the following have been achieved: Successful completion of all course work (excluding dissertation hours). Successful completion of the readiness exam administered in the first summer. Successful completion of the comprehensive candidacy exam administered in the second summer. Formation of the dissertation advisory committee, consisting of approved graduate faculty and graduate faculty scholars. Submission of an approved program of study. Students must defend a written dissertation proposal in an oral examination conducted by the faculty, at least one semester prior to their final dissertation defense. The final defense of the dissertation will require an oral examination.

Teaching Requirement
0 Total Credits
- The requirements for the teaching component of the doctoral degree will be developed by the Department Chair in consultation with the PhD coordinator. Normally, this requirement will be satisfied through teaching a minimum of three credit hours of class instruction under the direct supervision of the Department Chair or his/her designee. As appropriate, students will also be required to attend teaching development seminars and workshops.

Independent Learning
0 Total Credits
- The dissertation satisfies the independent learning experience.

Grand Total Credits: 72

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Cyber Risk Management Graduate Certificate

College
College of Business Administration

Department
Department of Management

Program Website
https://www.ucf.edu/online/degree/cyber-risk-management/

Program Contact Information
Kelley Dietrich
Director of Admissions
cbagrad@ucf.edu

Is this program available 100% online?
Yes
Please Note: The Cyber Risk Management Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

This program has temporarily suspended admission

The certificate in Cyber Risk Management introduces students from various academic backgrounds to current cybersecurity and privacy matters affecting organizations and emphasizes managerial and risk-based approaches to help organizations effectively prepare for and respond to these concerns.

Program Prerequisites

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

Application Requirements

Admission is open to those with documentation of a Bachelors degree from an accredited institution recognized by UCF or participation in a UCF graduate degree program. Students who maintain graduate standing in a UCF graduate degree program during the time required to complete a graduate certificate are eligible for this certificate. An application to the graduate certificate program, a current resume, and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

In addition to the Admissions, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume/CV

Graduate Application Deadlines

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<th>Cyber Risk Management Graduate Certificate</th>
<th>Fall</th>
<th>Spring</th>
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Graduate School Contact

TBD
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses (must be taken in the order below)
9 Total Credits

- Take the following:
  - ISM6327 - Foundations of Cybersecurity and Privacy (3)
  - ISM6328 - Cyber Risk Assessment (3)
  - ISM6375 - Cyber Management and Leadership (3)

Grand Total Credits: 9

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Economics MS

College
College of Business Administration

Department
Department of Economics

Program Website
http://business.ucf.edu/graduate-programs/

Program Handbook
Economics MS

Program Contact Information

Harry Paarsch PhD
Professor
harry.paarsch@ucf.edu
Telephone: 407-823-1576
BA2 - 302M

Is this program available 100% online?
No

Program Description

This program has temporarily suspended admission and plans to reopen for admission in Fall 2023

The Master of Science in Economics degree program prepares students as economists specializing in business analytics. The program provides students with the necessary theoretical and quantitative training to address current economic business problems in a thoughtful, rigorous manner.

Today's job market offers numerous opportunities to individuals who couple an advanced understanding of economic theory with well-developed skills in data analytics.

The Economics MS program requires a minimum of 30 credit hours beyond the bachelor's degree.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Résumé.
- Two Letters of Reference: either two professors, if within two years of graduating, or one professor and a manager after that.
- Essay (no more than two pages; 8.5 x 11-inch stock, ten-point font, single-spaced, one-inch margins all around), explaining why candidate wants to study business analytics
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant’s degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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<td>Jan 15</td>
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</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

TBD
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: UCF-College of Graduate Studies
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
24 Total Credits
No Rules

Fall Term Courses
12 Total Credits

- Complete the following:
  - ECO6403 - Mathematical Economics (3)
  - ECO6118 - Microeconomic Theory I (3)
  - ECO5445 - Introduction to Business Analytics (3)
  - MAP6207 - Optimization Theory (3)

Spring Term Courses
12 Total Credits

- Complete the following:
  - ECO6424 - Econometrics I (3)
  - ECO7116 - Microeconomic Theory II (3)
  - ECO6315 - Seminar in Contemporary Economic Issues (3)
  - ECO6445 - Data Wrangling (3)

End-of-Program Requirement
6 Total Credits

- Complete all of the following
  - Complete the following:
    - ECO6935 - Capstone in Business Analytics I (3)
    - ECO6936 - Capstone in Business Analytics II (3)
  - The culminating academic experience of the program consists of a two-course capstone sequence that provides students a forum in which to develop, carry out, and write up research of a well-defined problem in business analytics using the tools developed in the program.

Independent Learning
0 Total Credits

- The capstone research project is required of all students in the program.

Grand Total Credits: 30

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Entrepreneurship Graduate Certificate

College
College of Business Administration
Department

Department of Management

Program Website

http://www.bus.ucf.edu/students/graduate/?page=1842

Program Contact Information

Cameron Ford PhD
Associate Professor
cbagrad@bus.ucf.edu
Telephone: 407-823-3700
Business Administration 345

Is this program available 100% online?

No

Program Description

The Graduate Certificate in Entrepreneurship helps students develop entrepreneurial mindsets and skillsets needed to solve novel problems and create value for others. Participants will learn how to recognize opportunities, formulate solutions, design business models, deliver results, and sustain success. These capabilities will empower graduates to help others by providing them with access to innovations that solve important problems.

These skills are essential to starting and leading new projects, initiatives, and startup ventures, and are valued by established organizations as well as startups. This certificate is a valuable complement to those transitioning career paths, and to graduate students who would benefit from learning how to commercialize innovations or champion innovations in corporate, government, or entrepreneurial settings.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

Application Requirements

Admission is open to those with documentation of a bachelors degree from an accredited institution recognized by UCF or participation in a UCF graduate degree program. Students who maintain graduate standing in a UCF graduate degree program during the time required to complete a graduate certificate are eligible for this certificate. An application to the graduate certificate program, a current resume, and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

In addition to the Admissions, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume/CV

Graduate Application Deadlines

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<th>Spring</th>
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2021-2022 Graduate Catalog
Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: UCF-College of Graduate Studies
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete all of the following
  - Complete the following:
    - ENT5016 - New Venture Design (3)
    - ENT5206 - New Venture Implementation (3)
  - Complete at least 1 of the following:
    - ENT6617 - Innovation and Entrepreneurship Strategy (3)
    - ENT5185 - Technological Entrepreneurship (3)

Grand Total Credits: 9

FinTech Graduate Certificate

College

College of Business Administration

Department

Department of Finance

Program Contact Information

Kelley Dietrich
cbagrad@bus.ucf.edu

Is this program available 100% online?

Yes

UCF Online

Please Note: The FinTech Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

Program suspended admission beginning Fall 2021.

FinTech is the use of technology to innovate, improve and facilitate the delivery of traditional financial services. The objective of the FinTech Certificate is to introduce students to the foundations of FinTech and employable technical skills including artificial intelligence and the development of algorithms.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

Application Requirements

Admission is open to those with documentation of a bachelors degree from an accredited institution recognized by UCF or participation in a UCF graduate degree program. Students who maintain graduate standing in a UCF graduate degree program during the time required to complete a graduate certificate are eligible for this certificate. An application to the graduate certificate program, a current resume, and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

In addition to the Admissions, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume/CV

Graduate Application Deadlines

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</tbody>
</table>

Graduate School Contact

TBD
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230

Online Application

Graduate Admissions

Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
- Complete the following:
  - CAP5636 - Advanced Artificial Intelligence (3)
  - COT5405 - Design and Analysis of Algorithms (3)
  - FIN6515 - Analysis of Investment Opportunities (3)
- Complete at least 1 of the following:
  - FIN6779 - FinTech in Decision Making (3)
  - FIN6778 - Foundations of FinTech (3)

Grand Total Credits: 12

FinTech MS

College

College of Business Administration
Department

Department of Finance

Program Contact Information

Christo Pirinsky, Ph.D
Associate Professor
fintech@ucf.edu
407-823-5962
BA1 Rm 420

Is this program available 100% online?

Yes

UCF Online

Please note: FinTech MS, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Prerequisites

A Bachelor’s degree in a STEM-related discipline or business discipline from an accredited institution recognized by UCF.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the Admissions section, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor’s degree in a STEM-related discipline or business discipline from an accredited institution recognized by UCF.
- The GRE is not required for admission to this program.
- A goal statement. This is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally in the future.
- Updated résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Program Description

FinTech or Financial Technology, refers to the application of technological innovation in the financial services industry. Recent developments in technology and computer science have brought about significant changes in many sectors of the financial services industry, enabling individuals and businesses to use products and services at a lower cost, with greater ease and convenience.

Technological innovations and advances facilitate the streamlining and delivery of financial services. It should be noted that, similar to other domains of business and society, the financial services sector is also facing the disruptive effects of artificial intelligence (AI). Extremely relevant to the proposed program is that UCF is an integral part of the Florida High Tech Corridor ($5 billion industry, employs 30,000, home to National Center for Simulation), which involves a significant number of modeling, simulation, and technology companies and academic institutions that produce applications that run the gamut of fields including military, flight and transportation training, virtual experiences for theme parks and interactive entertainment, and medical training utilizing patient simulators. Home to the National Center for Simulation, UCF’s Institute for Simulation and Training, all branches of the military and 10 other government agencies concentrated on simulation. Rated through Team Orlando, the Florida High Tech Corridor is a veritable hub for this field. The list of companies seeking employees with technology skills is far too lengthy to include in this document, but spans across local, state, national, and international opportunities (http://www.phocuswright.com/About-Us/Our-Clients).

There is an increasing need for technology-savvy employees who can think and function uniquely in crossdisciplinary teams to solve real analytical and logistical problems in the financial services sector. The Wall Street Journal has highlighted the fourth straight year of declines nationwide of applications to study an MBA in the US and noted that “...in response, schools in recent years have launched cheaper, more flexible or more customized Master's degrees in hot areas such as data science and supply chain management” (WSJ, 10/1/2018). The MS in FinTech will forge a new path in interdisciplinary education and contribute to burgeoning interdisciplinary research encompassing computer science, and finance. Diverging from traditional business/management degrees, the MS in FinTech will focus on prescriptive and predictive techniques to anticipate and solve problems in a forward-looking approach.

FinTech is revolutionizing how quickly and cost-effectively financial services are delivered and is disrupting traditional financial services such as banking and mobile payments, not only in the developed world but also in emerging and developing economies. The disruptive force of FinTech is changing the banking and financial services industry’s workforce. Moving forward, it is expected that many of the traditional jobs in the financial services industry will be replaced by jobs requiring FinTech skills.

FinTech is increasingly characterized by startups with venture capital investments. As reported by the Orlando Sentinel recently, Fattmerchant, an Orlando based FinTech firm received a US$5.5 million investment from a venture capital (VC) firm with the objective of hiring as many as 50 people, most of them in the Southeast. This is just a small piece of the US$16.6 billion in global venture capital raised in over 1,000 deals in 2017 (CB Insights, 2018), with most of the funding going to US companies. Last year (2018) was expected to be an even stronger year for such investments and to drive the demand for FinTech jobs, both in the US and globally. Job demand for FinTech is high (5,837 FinTech jobs are listed on Linkedin as of December 31, 2018). By combining skills in key software and finance areas, FinTech jobs have a high median annual income of US$130,000 vs. US$105,000 for a general software developer. (Computerworld, 12/15/2017) The interdisciplinary MS in FinTech (Finance and Technology) will be offered jointly by the College of Business Administration (CBA) (Department of Finance) and College of Engineering and Computer Science (CECS) (Department of Computer Science). The degree will be housed in the CBA.

The core of the MS in FinTech is the application of technology to improve and automate the delivery of traditional financial services. This degree program will provide employable technical skills including the development of algorithms, machine learning, and computer systems. The curriculum includes required courses that ensure that students develop computing skills, build awareness of financial markets, and apply their skills to simplify services related to banking, mobile payments and transfer of funds, credit evaluations, and asset management.

The FinTech MS is a 10-course (30-credit hours) lock-step cohort program with 5 courses (15-credits) each in Finance and Computer Science and will not have any tracks or specializations. The independent learning requirement is met by successful completion of a capstone project in the required course FIN 6777 (Capstone Course), which will be an applied project in financial technologies.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor’s Degree
Graduate Application Deadlines

<table>
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<th>FinTech MS</th>
<th>*Fall Priority</th>
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</table>

**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Saudia Yassin  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

Required Courses  
30 Total Credits

- Complete the following:
  - FIN6406 - Strategic Financial Management (3)
  - FIN6515 - Analysis of Investment Opportunities (3)
  - FIN6778 - Foundations of FinTech (3)
  - FIN6779 - FinTech in Decision Making (3)
  - FIN6777 - FinTech Entrepreneurship (3)
  - COT5480 - Computational Methods in FinTech I (3)
  - COT6481 - Computational Methods in FinTech II (3)
  - CAP5619 - Artificial Intelligence for FinTech (3)
  - COP5818 - Full Stack Development for FinTech (3)
  - CIS5730 - Blockchains and Smart Distributed Contracts (3)

Grand Total Credits: 30

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120  
Telephone: 407-823-2827  
Appointment Line: 407-823-5285  
Fax: 407-823-5241  
finaid@ucf.edu  
http://finaid.ucf.edu
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Management MSM

College
College of Business Administration

Department
Department of Management

Program Website
http://www.business.ucf.edu/graduate-programs

Program Handbook
Management MSM

Program Contact Information
Business Analytics, Entrepreneurship & Human Resources Tracks
Robin Hofler
robin.hofler@ucf.edu
Telephone: 407-235-3913

Integrated Business Track
cbagrad@ucf.edu or ib@ucf.edu

Is this program available 100% online?
No

Program Description
The Master of Science in Management offers 4 track options. Please scroll to the bottom of this page for further details on these Tracks.

Three tracks are a Professional MS in Management: Business Analytics Track; Human Resources Track; and Entrepreneurship track. Each are taught in a 20-month, cohort format at the UCF Downtown Orlando Campus. They are designed to allow the busy professional to work full-time while earning their degree. Classes meet two times per week and class size is limited. Each of these track options provides a blend of advanced management courses combined with specialty courses.

These professional tracks charge market rate tuition and are considered part-time. The tuition is the same for Florida residents and non-residents.

The fourth track, Integrated Business, is designed for recent non-business undergraduates and emphasizes the development of applied business skills through a team-based, active learning approach, and creates well-rounded multi-disciplinarians who will thrive in environments that require them to take on multiple roles and responsibilities for their employer. This track is a 12-month, full-time daytime program held at UCF’s main campus. This track is considered full time and tuition is based on the current graduate in-state and out-of-state graduate tuition rates.
Graduate School Contact

TBD
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
TOEFL: 5233
ETS PPI: 5233

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Management MSM - Management MSM, Business Analytics Track

College
College of Business Administration

Department
Department of Management

Track Website
http://www.business.ucf.edu/graduate-programs

Track Handbook
Management MSM, Business Analytics Track

Track Contact Information

Robin Hofler
robin.hofler@ucf.edu
Telephone: 407-235-3913

Is this track available 100% online?
No
**Track Description**

The MS in Management/Business Analytics provides students with the specialized skills necessary to respond to challenges of the new data-intensive business world of today.

The 30-credit hour, ten-course curriculum introduces students to the main quantitative methods and software tools of business analytics, a subfield of data science; namely, those used in numerical, optimization, simulation, and statistical methods. Designed for those interested in using quantitative methods to uncover economic relationships, to construct predictive models, and to communicate business intelligence, the curriculum provides students with the knowledge necessary in making informed business decisions. Specifically, students will learn how to acquire, organize, manage, and analyze data, in addition to gaining experience with software tools commonly used in the industry (such as Python, R, and SQLite). Through a combination of case studies, hands-on lectures, and group projects, students will gain valuable experience in using quantitative methods to solve business problems. The program culminates in an applied capstone project that uses these methods and tools to solve an empirical problem.

- A 20-month program offered in Downtown Orlando
- Limited class size, cohort program
- Classes meet 2 evenings per week
- No work experience requirement
- Diagnostic testing required for admission

The MS in Management/Business Analytics program is taught at UCF's Downtown Orlando campus. Students will find a high level of personal attention from program administrators from the moment they apply. Ideal candidates for this degree are students with an understanding of statistics and quantitative methods but come from a variety of degree fields such as business, economics, finance, statistics, information systems and engineering.

**Prerequisites:** Minimum of college-level microeconomics, statistics or quantitative methods and calculus courses required.

This program is a professional program with a market rate tuition and is considered a part-time program. The tuition is the same for Florida residents and non-residents. Please visit www.business.ucf.edu/graduate-programs for more information.

This program is accredited by AACSB International.

The Business Analytics track in the Professional Master of Science in Management provides students with the specialized skills necessary to respond to challenges of the new data-intensive, decision-making business world of today. Students become business analysts skilled in the collection, management, analysis, interpretation, and application of data to aid in more informed and successful business decisions. Skills learned in this degree are applicable across industries and organizations whether they be large or small, for-profit, or nonprofit.

**Total Credit Hours Required:** 30 Credit Hours Minimum beyond the Bachelor's Degree

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide the following:

- Official transcripts from each college/university attended.
- The GRE is not required for admission to this program.
- Current Resume.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
  - Describe what motivated you either professionally or personally to pursue a master’s degree.
  - Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.
  - Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Three professional letters of recommendation or three e-mail addresses of recommenders. **One recommendation must be from a previous or current supervisor.**
- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor’s degree. We accept either World Education Services (WES) or Josef Silny INC. Please request that your official transcripts be sent to UCF along with your transcript evaluation.
- If your native language is not English and you do not have a degree from a U.S. institution or English instruction institution, you will be required to submit a Test of English as a Foreign Language (TOEFL) score or an IELTS English Language Test score. For TOEFL a minimum score of 577 paper-based; 233 computer-based; or 91 Internet-based. For IELTS a minimum score of 7.0 is required. For more information on exams and locations, go to www.ets.org/toefl.

**Review Process.** Your application will be reviewed once all required documents are received. If approved by the Admissions Committee, you will then be contacted to complete diagnostic testing. Admission decisions are made after the diagnostic testing scores are received and reviewed by the Admissions Committee.

The GMAT is **not required** for Executive or Professional degree programs in the College of Business.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

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2021-2022 Graduate Catalog
Graduate Application Deadlines

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<th>Business Analytics</th>
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Application Deadlines Notes

This program is part-time only and therefore cannot accept international applicants.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: UCF-College of Graduate Studies
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
30 Total Credits

- Complete the following:
  - QMB6010 - Mathematical Tools for Business Analytics (3)
  - QMB6358 - Software Tools for Business Analytics (3)
  - STA6136 - Probability and Statistics for Business Analytics (3)
  - QMB6357 - Microeconomic Analysis for Business Analytics (3)
  - QMB6304 - Data Visualization (3)
  - MAN6721 - Applied Strategy and Business Policy (3)
  - QMB6912 - Capstone Project in Business Analytics (3)
  - STA5104 - Advanced Computer Processing of Statistical Data (3)
  - STA5735 - Fundamental Data Analytical Methodology with Business Applications (3)
  - STA5736 - Advanced Data Analytical Methodology with Business Applications (3)

Grand Total Credits: 30
Track Details

Course Sequence
The MSM Business Analytics is a 10-course program. The courses are pre-selected and set in a lock-step sequence in the order below.

- QMB 6010 - Mathematical Tools for Business Analytics 3 Credit Hours
- QMB 6358 - Software Tools for Business Analytics 3 Credit Hours
- QMB 6357 - Microeconomic Analysis for Business Analytics 3 Credit Hours
- QMB 6304 - Data Visualization 3 Credit Hours
- STA 5104 - Advanced Computer Processing of Statistical Data 3 Credit Hours
- STA 6136 - Probability and Statistics for Business Analytics 3 Credit Hours
- STA 5735 - Fundamental Data Analytical Methodology with Business Applications 3 Credit Hours
- MAN 6721 - Applied Strategy and Business Policy 3 Credit Hours
- STA 5736 - Advanced Data Analytical Methodology with Business Applications 3 Credit Hours
- QMB 6912 - Capstone Project in Business Analytics 3 Credit Hours

Capstone Course
The MSM Business Analytics capstone course, QMB 6911, Capstone Project in Business Analytics is required for all students. This capstone course integrates all the tools developed in the program to solve an empirical problem and gives students practical experience.

- QMB 6912 - Capstone Project in Business Analytics 3 Credit Hours

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
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Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Management MSM - Management MSM, Entrepreneurship Track

College
College of Business Administration

Department
Department of Management

Track Website
http://www.business.ucf.edu/graduate-programs

Track Handbook
Management MSM, Entrepreneurship Track

Track Contact Information
Robin Hofler
pmsm@ucf.edu
Telephone: 407-235-3913

Is this track available 100% online?
No
Track Description

This track has temporarily suspended admission

The Entrepreneurship Track in the Professional Master of Science in Management program is designed for students, working professionals and aspiring entrepreneurs who are interested in developing and implementing new programs, projects, or ventures within their organizations and industries. The program is organized to mirror the phases of startup processes – discovery, planning, and implementation – so that students can work on developing their own startup venture proposals while earning a valuable graduate degree.

This program is a professional program with a market rate tuition and is considered a part-time program. The tuition is the same for Florida residents and non-residents. Please visit www.business.ucf.edu/graduate-programs for more information.

This program is accredited by AACSB International.

This 30-hour experiential program provides an alternative to the MBA degree for students who desire specialized study in creative and entrepreneurial thinking.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Official transcripts from each college/university attended.
- The GRE is not required for admission to this program.
- Current Resume.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
  - Describe what motivated you either professionally or personally to pursue a master's degree.
  - Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.
  - Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Three professional letters of recommendation or three e-mail addresses of recommenders. One recommendation must be from a previous or current supervisor.
- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor's degree. We accept either World Education Services (WES) or Josef Silny. Please request that your official transcripts be sent to UCF along with your transcript evaluation.
- If your native language is not English and you do not have a degree from a U.S. institution or English instruction institution, you will be required to submit a Test of English as a Foreign Language (TOEFL) score or an IELTS English Language Test score. For TOEFL a minimum score of 577 paper-based; 233 computer-based; or 91 Internet-based. For IELTS a minimum score of 7.0 is required. For more information on exams and locations, go to www.ets.org/toefl.

Review Process. Your application will be reviewed once all required documents are received. Admission decisions are made after the review process is complete.

The GMAT is not required for Executive or Professional degree programs in the College of Business.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

Graduate Application Deadlines

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Application Deadlines Notes

This track has temporarily suspended admission

This program is part time only and therefore cannot accept international applicants
Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: UCF-College of Graduate Studies
TOEFL: 5233

Degree Requirements

Restricted Core Courses
15 Total Credits

- Earn at least 15 credits from the following:
  - GEB6895 - Business Intelligence (3)
  - MAN6245 - Organizational Behavior and Development (3)
  - MAN6915 - Applied Field Project (3 - 6)
  - MAN6325 - Applied Research Tools (3)
  - QMB6010 - Mathematical Tools for Business Analytics (3)
  - MAN6305 - Human Resources Management (3)
  - MAN6721 - Applied Strategy and Business Policy (3)
  - MAN6311 - Advanced Topics in Human Resources Management (3)

Specialization Courses
12 Total Credits

- Complete the following:
  - ENT5619 - Creativity and Entrepreneurship (3)
  - ENT5016 - New Venture Design (3)
  - ENT5206 - New Venture Implementation (3)
  - ENT6617 - Innovation and Entrepreneurship Strategy (3)

Capstone Course
3 Total Credits

- Complete all of the following
  - Complete the following:
    - ENT6900 - Entrepreneurship Portfolio (3)
  - ENT 6900, the capstone course portfolio, is required for all students. This portfolio course provides students with an opportunity to achieve new venture development milestones, demonstrate specific entrepreneurial competencies associated with those milestones, and connect with community experts tasked with assessing their efforts.

Grand Total Credits: 30

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Telephone: 407-823-2827
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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Management MSM - Management MSM, Human Resources Track
The Human Resources Track in the Professional Master of Science in Management curriculum is formally aligned with the Society of Human Resources Management (SHRM). It is designed for working professionals who aspire to become leaders in human resource management or general management.

This 30-hour program provides an alternative to the MBA degree for students who desire specialized study in management and human resources and seek employment or career advancement in the areas of human resources, strategic planning, organizational effectiveness, staffing, compensation and employee relations.

- 20-month program offered in downtown Orlando
- Limited class size, cohort program
- Classes meet Monday and Wednesday evenings
- Minimum two year professional work experience requirement
- Personal interview required for admission

The innovative curriculum combines general management and strategic business classes with advanced coursework in management of human resources. It provides students with the latest business techniques and knowledge required to succeed in today's competitive marketplace. One main component of the program is a focus on developing practices and methods that align human resources activities with organizational strategies and provide students with the knowledge required to successfully anticipate, plan, and carry out changes.

Students with a wide variety of backgrounds, including those with degrees in business, education, hospitality, nursing, and psychology are encouraged to apply.

This program is a professional program with a market rate tuition, and is considered a part-time program. The tuition is the same for Florida residents and nonresidents. Please visit www.business.ucf.edu/graduate-programs for more information.

This program is accredited by AACSB International.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate application requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Official transcripts from each college/university attended.
- The GRE is not required for admission to this program.
- Current Resume.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
  - Describe what motivated you either professionally or personally to pursue a master's degree.
  - Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about this program.
  - Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
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- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor's degree. We accept either World Education Services (WES) or Josef Silny INC. Please request that your official transcripts be sent to UCF along with your transcript evaluation.
- If your native language is not English and you do not have a degree from a U.S. institution or English instruction institution, you will be required to submit a Test of English as a Foreign Language (TOEFL) score or an IELTS English Language Test score. For TOEFL a minimum score of 577 paper-based; 233 computer-based; or 91 Internet-based. For IELTS a minimum score of 7.0 is required. For more information on exams and locations, go to www.ets.org/toefl.

Review Process. Your application will be reviewed once all required documents are received. Assuming you meet our admission requirements, you will be contacted to schedule an interview. Admission decisions are made after the interview and review process are complete.

The GMAT is not required for Executive or Professional degree programs in the College of Business.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

Graduate Application Deadlines

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Application Deadlines Notes

The MS in Management/Human Resources program is taught at the UCF Downtown Campus in downtown Orlando and the next available term for this program is Summer 2023.

This program is part-time only and therefore cannot accept international applicants.

Graduate School Contact

Saudia Yassin  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: UCF-College of Graduate Studies  
TOEFL: 5233  
ETS PPI: 5233

2021-2022 Graduate Catalog
Degree Requirements

Restricted Core Courses
15 Total Credits

- Earn at least 15 credits from the following:
  - MAN6325 - Applied Research Tools (3)
  - MAN6305 - Human Resources Management (3)
  - MAN6915 - Applied Field Project (3 - 6)
  - MAN6245 - Organizational Behavior and Development (3)
  - GEB6895 - Business Intelligence (3)
  - QMB6010 - Mathematical Tools for Business Analytics (3)
  - MAN6311 - Advanced Topics in Human Resources Management (3)
  - MAN6311 - Advanced Topics in Human Resources Management (3)

Restricted Specialization Courses
12 Total Credits

- Complete at least 4 of the following:
  - MAN6385 - Strategic Human Resources Management (3)
  - MAN6285 - Change Management (3)
  - MAN6448 - Conflict Resolution and Negotiation (3)
  - MAN6066 - Ethical Leadership (3)
  - BUL6444 - Law and Ethics (3)
  - GEB6518 - Strategic Innovation (3)
  - MAN6395 - Leadership Development and Coaching (3)

Capstone Course
3 Total Credits

- Complete all of the following
  - Earn at least 3 credits from the following:
    - MAN6915 - Applied Field Project (3 - 6)
  - The Professional Master of Science in Management/Human Resources (PMSM/HR) capstone course, MAN 6915 - Applied Field Project, is required for all students. This capstone course applies concepts, theories and methods learned earlier in the program to organizational problems in business settings.

Grand Total Credits: 30

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Management MSM - Management MSM, Integrated Business Track

College
College of Business Administration

Department
Department of Management

Track Website
http://www.business.ucf.edu/graduate-programs

Track Handbook
Management MSM, Integrated Business Track
Is this track available 100% online?
No

Track Description
The Integrated Business track in the Master of Science in Management (MSM/IB) provides students who have a recent, non-business undergraduate degree and limited professional work experience with an introduction to critical, in-demand business processes and helps them develop a wide range of transferable skills that employers value highly. Skills learned in this degree program are applicable across industries and organizations whether they be large or small, for-profit or nonprofit.

This is a full-time, lock-step, one-year program offered on the main campus.

The 30-credit hour, a 10-course curriculum introduces students to business operations from a managerial perspective and to a variety of important business processes that are useful across industries and job titles, including data analysis, human resources management, project management, and sales. In addition, a wide variety of important transferable skills are emphasized, including conflict resolution, critical thinking, data-driven decision making, ethics, leadership, negotiation, oral presentation, teamwork, and written communication. The fully face-to-face program uses a unique flipped-classroom design, which involves providing access to students to online course materials prior to in-class meetings during which students engage in team-based active learning that requires integrating the activities with course materials in practical ways. In this pedagogical model, the instructor serves as a facilitator, consultant, coach, and mentor to the team, rather than a talking head who lectures at the front of the room. The program is designed for recent graduates from non-business disciplines who wish to enter into a professional business career but who do not feel workplace ready. The program culminates in a business strategy class coupled with either an internship or a team-based applied field project.

Highlights:
- A 12-month, full-time program
- 12-hour course load in each of the first two semesters, 6-hour load in the third (final) semester.
- Offered at UCF’s main campus
- Cohort (lock-step) program
- Each class meets once per week
- No work experience requirement

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor’s Degree

Track Prerequisites
A Bachelor’s degree in a non-business discipline from an accredited institution.

Application Requirements
For information on general UCF graduate application requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:
- A Bachelor's degree in a non-business discipline from an accredited institution.
- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- A goal statement that explains:
  - What motivated you either professionally or personally to pursue a Master’s degree.
  - The steps you took to select this program (include how long you have been considering graduate school and how you learned about this program).
  - A specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Updated résumé.
- A computer-based score of 233 (or 91 Internet-based score) on the Test of English as a Foreign language (TOEFL) is required if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the official language or a university where English is the official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program whose completed Bachelor’s degree is from a college/university outside the U.S. must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are only accepted from World Education Services (WES) or Josef Silny and Associates, Inc.
- GMAT is not required.
Graduate Application Deadlines

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<td>International Applicants</td>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
30 Total Credits

- Earn at least 30 credits from the following:
  - GEB6037 - Business Foundations and Career Development (3)
  - ENT6418 - Small Business Accounting and Finance (3)
  - GEB6895 - Business Intelligence (3)
  - MAN6245 - Organizational Behavior and Development (3)
  - MAN6305 - Human Resources Management (3)
  - MAN6448 - Conflict Resolution and Negotiation (3)
  - MAN6581 - Project Management (3)
  - MAN6721 - Applied Strategy and Business Policy (3)
  - MAR6416 - Sales and Marketing Strategies (3)
  - MAN6915 - Applied Field Project (3 - 6)

Grand Total Credits: 30
Track Details
Timeline
First Semester

- GEB 6037 – Business Foundations and Career Development. 3 credit hours. Students will study the concepts, principles, and operations of private enterprise. They will be introduced to the essential functions of modern business management, including marketing, finance, accounting, operations, economics, and human resource management. They will learn how to identify the knowledge, skills, and abilities (KSAs, also known as competencies) associated with success in various job titles and how to map their interests and past educational, work, and life experiences to those KSAs.
- GEB 6895 – Business Intelligence. 3 credit hours. Provides an introduction to a critical thinking process designed to solve business problems that incorporate careful data analysis and persuasive writing.
- MAN 6425 – Organizational Behavior. 3 credit hours. Students learn to analyze human behavior in organizations in terms of the individual, small group, and intergroup relationships, and the total organization.
- MAR 6416 – Sales and Marketing Strategies. 3 credit hours. Students will study strategic issues faced by firms when they seek to market and sell their goods and services. The course will cover the basic principles of marketing and include coverage of digital marketing. Students will also be introduced to the sales process, in both business-to-business (B2B) and business-to-consumer (B2C) markets.

Second Semester

- ENT 6418 – Small Business Accounting and Finance. 3 credit hours. Students will learn concepts of accrual accounting, the contents and uses of financial statements and how they relate to one another, ratio analysis, business structure and valuation, time value of money, cash flow management and budgeting, forecasting, funding courses for various types of businesses, the cost of capital, and capital budgeting.
- MAN 6305 – Human Resources Management. 3 credit hours. Students learn to contribute to the development and implementation of human resource policies and practices. Legal issues and relationships with other business functions are emphasized.
- MAN 6448 – Conflict Resolution and Negotiation. 3 credit hours. The student will come to recognize the pervasiveness and importance of negotiation and acquire a repertoire of negotiating skills. They will develop a systematic and positive approach to negotiating with colleagues, bosses, clients, other stakeholders, and external groups of all kinds—in ways that equip them to deal also with all kinds of conditions and circumstances.
- MAN 6581 – Project Management. 3 credit hours. Students will be introduced to key project management skills and strategies with a focus on methods needed to initiate and manage projects efficiently and effectively. They will study the project management life cycle, defining project parameters, matrix management challenges, effective project management tools and techniques, and the role of a project manager.

Third Semester

- MAN 6915 – Applied Field Project. 3 credit hours.
- MAN 6721 – Applied Strategy and Business Policy. 3 credit hours.

Capstone Course

The Master of Science in Management/Integrated Business (MSM/IB) capstone course, MAN 6915 - Applied Field Project, is required for all MSM/IB students. This capstone course applies concepts, theories and methods learned earlier in the program to organizational problems in business settings.

With the permission of the program director, during the third (final) semester in the program a student may substitute a professional internship of no less than 192 hours for MAN 6915 Applied Field Project.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
**Fellowship Information**

Fellowships are awarded to highly qualified students based on academic merit. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what students should do to be considered for a fellowship.

**Grad Fellowships**
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

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**Real Estate MSRE**

**College**
College of Business Administration

**Department**
Department of Finance

**Program Website**
http://www.business.ucf.edu/graduate-programs

**Program Handbook**
Real Estate MSRE

**Program Contact Information**
Robin Hofler
robin.hofler@ucf.edu
Telephone: 407-235-3913

**Is this program available 100% online?**
No

**Program Description**
The Professional Master of Science in Real Estate (PMRE) program was designed by the Dr. P. Phillips School of Real Estate as a flagship graduate program that prepares students to pursue careers in commercial real estate brokerage and appraisal, real estate development, mortgage brokerage, institutional real estate investment management, capital markets, and asset management. Students receive Argus Software training providing eligibility to earn their ARGUS Software Certification (exam fees are included in the program). Student are eligible for the fast track to CCIM designation and credit towards MAI designation upon graduation. Graduates are also well prepared to sit for the Florida real estate brokerage and licenses.

- 20-month program offered in Downtown Orlando
- Limited class size, cohort program
- Classes meet 2 evenings per week

Students advance through all courses together as a cohort using their professional experience as an important addition to the learning process. The program’s 30-credit-hour curriculum combines a professional business core with courses in finance, accounting and advanced coursework in real state.

This program is a professional program with a market rate tuition and is considered a part-time program. The tuition is the same for Florida residents and non-residents. Please visit www.business.ucf.edu/graduate-programs for more information.

This program is accredited by AACSB International.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree**
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Official transcripts from each college/university attended.
- The GRE is not required for admission to this program.
- Current Résumé.
- Prepare a goal statement that answers the following questions. Please limit to 1000 words.
  - Describe what motivated you either professionally or personally to pursue a master's degree.
  - Describe the steps you took to select UCF and this program. Include how long you have been considering graduate school and how you learned about our program.
  - Describe a specific academic experience or professional business skill you hope to acquire through the program and how you plan to use it going forward.
- Recommendations. Provide three email addresses of recommenders in your application from professional sources. One recommendation must be from a current or previous supervisor.
- If your degree was not received in the U.S., you must also send one copy of each transcript to an accredited evaluation service for a course-by-course evaluation showing the equivalent of a U.S. bachelor's degree. We accept either World Education Services (WES) or Josef Silny. Please request that your official transcripts be sent to UCF along with your transcript evaluation.
- If your native language is not English and you do not have a degree from a U.S. institution or English instruction institution, you will be required to submit a Test of English as a Foreign Language (TOEFL) score or an IELTS English Language Test score. For TOEFL a minimum score of 577 paper-based; 233 computer-based; or 91 Internet-based. For IELTS a minimum score of 7.0 is required. For more information on exams and locations, go to www.ets.org/toefl.

Review Process. Your application will be reviewed once all required documents are received. Admission decisions are made after the review process is complete.

The GMAT is not required for Executive or Professional Degree programs.

Early application tuition discounts are available for this program. For application and tuition discount details, view our Graduate Admissions page.

Graduate Application Deadlines

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<th>Fall Priority</th>
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Application Deadlines Notes

This program is part-time only and therefore cannot accept international applicants.

Graduate School Contact

Saudia Yassin  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: UCF-College of Graduate Studies  
TOEFL: 5233  
ETS PPI: 5233
**Degree Requirements**

**Required Courses**
30 Total Credits
No Rules
Finance Core
12 Total Credits

- Complete the following:
  - ACG6425 - Managerial Accounting Analysis (3)
  - FIN6406 - Strategic Financial Management (3)
  - PAD5336 - Introduction to Urban Planning (3)
  - REE6380 - Financial Analysis of Real Estate Firms (3)

Real Estate Core
18 Total Credits

- Complete the following:
  - REE6006 - Real Estate Markets and Institutions (3)
  - REE6147 - Real Estate Market Analysis and Appraisal (3)
  - REE6209 - Real Estate Finance and Investment Analysis (3)
  - REE6418 - Real Estate Contracts and Negotiations (3)
  - REE6455 - Real Estate Law (3)
  - REE6737 - Real Estate Development (3)

**Capstone Course**
0 Total Credits

- The UCF PMRE capstone course, REE 6737 - Real Estate Development, is required by all students. Students will create a comprehensive development project that covers the real estate development process, regulatory considerations, financial and market feasibility, management and control, and environmental aspects of real estate development.

**Grand Total Credits:** 30

**Fellowship Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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**Sport Business Management MSBM**

**College**
College of Business Administration

**Department**
DeVos Sport Business Management

**Program Website**
http://business.ucf.edu/devos/

**Program Handbook**
Sport Business Management MSBM
Program Contact Information

Richard Lapchick PhD
Professor
devos@ucf.edu
Telephone: 407-823-4887
Business Administration II 205D

Jennifer Raraigh-Hopper
Assistant Director
jraraigh@ucf.edu
Telephone: 407-823-4887
BA2 302X

Is this program available 100% online?
No

Program Description

This program is the only sport business management program emphasizing diversity, moral, ethical, and social issues in sports, as well as focusing on sports leadership while giving the students a rigorous business education. The DeVos Sport Business Management Program is ranked as one of the top five programs in America by the Wall Street Journal, New York Times, and ESPN the Magazine. In 2015, the Program was named the number two program in the world by SportsBusiness International. Students are required to perform 21 hours of service per semester for a Central Florida organization that works with underserved youth. Students will also spend a minimum of two weeks helping to rebuild homes in post-Katrina New Orleans. A major emphasis of the DeVos Program is to have our students leave understanding the power of sport to build communities in addition to learning strong business skills for a successful career in sports management.

Students in the DeVos Sport Business Management master’s program gain hands-on experience in the business of sports management, work in teams with fellow students on sports business projects from conception through implementation and develop a network in the sports industry.

Graduates of the program will understand the relationship between sport and social issues, the business of sport both nationally and internationally, and how the legal system impacts sports business. They will understand and embrace the strengths and complexities of a diverse workforce and the importance of multicultural marketing as an actual component of overall business strategy and will be prepared to lead organizations to be corporate good citizens in the community. Graduates will also be able to develop and implement integrated business and marketing plans, optimize the use of the technology, and design and carry out research necessary to make successful management and business decisions.

Job opportunities for graduates in sport management include areas such as intercollegiate and professional sport, event and facilities management, corporate and international sport, and marketing. The DeVos Sport Business Management Program develops professionals who have critical sports business management knowledge and skills, a commitment to using sport to improve life in society, well-developed leadership abilities, and uncompromising ethical standards. Students in the Sport Business Management program have the opportunity to be admitted to the MBA program and receive an MBA as an additional degree. Please note that a student admitted to the MSBM program with provisional admission to the MBA program will take 13.5 hours of coursework in the first semester, 12 of which are coursework hours that count toward both the MSBM and MBA degrees. The student must earn a grade of B (3.0) or higher in all MBA courses taken, otherwise, the student's provisional admission to the MBA program will be revoked.

The DeVos Sport Business Management MSBM program requires a minimum of 45 credit hours beyond the bachelor's degree. The program includes 18 credit hours of professional core courses, 24 credit hours of sport business management core courses, and 3 credit hours of an internship. This is a nonthesis program in which the internship serves as a capstone experience.

Total Credit Hours Required: 45 Credit Hours Minimum beyond the Bachelor's Degree

The two-year full-time curriculum includes the College of Business Administration's foundation core; selected required courses from the college's professional core for solid business skills and knowledge; and required sport business management courses that will create a unique knowledge base for our students.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GMAT or GRE score taken within the last five years.
- Three professional letters of recommendation.
- Essay (for details, see https://business.ucf.edu/degree/masters-sports-business-management-msbm/)
- Résumé.
- Video Essay
- All finalists will be required to have an in-person interview; the only exception shall be for prospective international students who will be permitted to have a Skype interview.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

We admit students based on their total package of academic success, professional and community service experience, commitment to teamwork, and other factors that show the admissions committee if the applicant is a good fit for the DeVos program.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT:
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
45 Total Credits
No Rules

Professional Core
18 Total Credits

- Complete the following:
  - MAN6245 - Organizational Behavior and Development (3)
  - MAR6466 - Strategic Supply Chain and Operations Management (3)
  - ACG6425 - Managerial Accounting Analysis (3)
  - FIN6406 - Strategic Financial Management (3)
  - ECO6416 - Applied Business Research Tools (3)
  - ECO6115 - Economic Analysis of the Firm (3)

Sport Business Management Core
24 Total Credits

- Complete the following:
  - SPB6506 - Moral and Ethical Issues in Sport (1.5)
  - SPB6606 - Diversity and Social Issues in Sport Business Management (1.5)
  - SPB6725 - Leadership in Sport (1.5)
  - SPB6716C - Strategic Sport Marketing (3)
  - SPB6406 - Sport Law (3)
  - SPB6806 - Business of Sport Media (3)
  - SPB6735 - The Global Environment of Sport (3)
  - SPB6715C - Professional Selling in Sport (1.5)
  - SPB6706 - Sport Analytics (3)
  - GEB6156 - The Business of Hip-Hop Innovation and Entrepreneurship (3)

Internship
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - An internship equivalent to three credit hours with a designated sport organization is required. It would normally be a full-time, 15-week internship taken after the completion of all academic courses. The internship is an independent learning activity that takes place in authentic settings (settings are professional sports, collegiate sports, etc.) in which students must apply, reflect upon, and refine knowledge and skills acquired in the program.

MBA Option: 51 Total Credit Hours Required
0 Total Credits

- If accepted into the MBA program, students must complete MAN 6721 -Applied Strategy and Business Policy (3 credit hours) (grade of B- or better is required for MAN 6721) and MAR 6816 - Strategic Marketing Management (3 credit hours). Please note that a student admitted to the MSBM program with provisional admission to the MBA program will take 13 credit hours of coursework in the first semester, 12 of which are courses that count toward both the MSBM and MBA degrees. The student must earn a grade of B (3.0) or higher in all MBA courses taken, otherwise, the student’s provisional admission to the MBA program will be revoked.

Independent Learning
0 Total Credits

- All students are required to participate in an internship in professional sport settings in which students must apply, reflect upon, and refine knowledge and skills acquired throughout the curriculum.

Grand Total Credits: 45

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
grdfellowship@ucf.edu
https://funding.graduate.ucf.edu

Taxation MST

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Program Website
https://business.ucf.edu/

Program Contact Information
Charles Kelliher PhD
Associate Professor
charles.kelliher@ucf.edu
Telephone: 407-823-5128
BA 1 - 324

Is this program available 100% online?
No

Program Description

NOTE: This program has been suspended and is not accepting applications effective with the Fall 2014 term.

The Master of Science in Taxation program is designed to prepare students for careers as tax professionals and tax consultants in public practice, government, and industry. The MST degree, along with appropriate prerequisite work from an undergraduate degree in accounting, satisfies the education requirements to become a licensed CPA in the state of Florida.

Faculty members in the Kenneth G. Dixon School of Accounting emphasize independent learning in various ways in all courses in the MST program. Cases and research projects that involve independent work outside the classroom are incorporated into all course work. The cases and projects are both individual and team prepared. Students are asked to do research that requires they utilize library, internet and resources other than the material provided by the professor. The results of independent research activity are presented in a written report, a case analysis, or an oral presentation. Students work to develop and enhance skills and competencies that will support them professionally throughout their careers. The approaches used in our courses encourage life-long learning.

The Master of Science in Taxation (MST) degree is awarded upon completion of a minimum 30 credit hours, and a final written exit exam. In the total program of study a minimum of 21 credit hours of the coursework must be completed in accounting/tax courses. Students, with the assistance and approval of the program adviser, may select other courses that reflect their interests and career objectives.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree
Program Prerequisites

3.0 GPA in upper division accounting and tax courses.

The courses included in the business and accounting foundation core are listed below. An applicant with a recent undergraduate accounting degree should satisfy most of the core foundation requirements. Other recent related business coursework may partially satisfy these core requirements. The business foundation core is designed for students with a nonbusiness undergraduate degree (e.g., psychology, education, or engineering). The accounting foundation core is designed for students with an undergraduate business degree (e.g., finance, marketing, or management). All business and accounting foundation core deficiencies must be satisfied before graduate MSA coursework can be taken. Before taking any foundation courses, please have your undergraduate transcripts reviewed by the MSA/MST Program Advisor.

Business Foundation Core: 21 Credit Hours

- ACG 2021 - Financial Accounting 3 Credit Hours
- ACG 2071 - Managerial Accounting 3 Credit Hours
- ECO 2013 - Macroeconomics 3 Credit Hours
- ECO 2023 - Microeconomics 3 Credit Hours
- ECO 3401 - Quantitative Business Tools I 3 Credit Hours
- ECO 3411 - Quantitative Business Tools II 3 Credit Hours
- FIN 3403 - Business Finance 3 Credit Hours

Accounting Foundation Core: 22 Credit Hours

- ACG 3131 - Intermediate Financial Accounting I 3 Credit Hours
- ACG 3141 - Intermediate Financial Accounting II 3 Credit Hours
- ACG 3361 - Cost Accounting I 3 Credit Hours
- ACG 4401 - Accounting Information Systems 3 Credit Hours
- ACG 4651 - Auditing 3 Credit Hours
- BUL 3130 - Legal and Ethical Environment of Business 4 Credit Hours

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program need the following:

- One official transcript (in a sealed envelope) from each college/university attended.
- 3.0 GPA in upper division accounting and tax courses.
- Official, competitive GMAT score taken within the last five years.
- Résumé.
- A computer-based score of 233 (or 91 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate School Contact

Saudia Yassin
Degree Requirements

Required Courses
15 Total Credits

- Complete the following:
  - ACG6636 - Advanced Auditing (3)
  - ACG6805 - Accounting Theory (3)
  - TAX5015 - Advanced Tax Topics (3)
  - TAX6065 - Tax Research (3)
  - TAX6845 - Tax Planning and Consulting (3)

Restricted Tax Elective Courses
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - TAX 6317 - Taxation of Flow-thru Entities 3 Credit Hours
  - TAX 6527 - Multi-jurisdictional Taxation 3 Credit Hours
  - TAX 6875 - Contemporary Tax Topics 3 Credit Hours
  - TAX 6946 - Graduate Tax Internship 3 Credit Hours

Restricted Elective Courses
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  - MSA students can take additional TAX courses or ACG courses as restricted electives. Most MBA courses other than ACG 6425 and BUL 6444 may be taken as restricted electives. BUL 5332 - Advanced Business Law Topics is required for UCF students with an undergraduate degree in accounting who plan to take the CPA exam. Please note that some of the MBA courses may be restricted to only those students enrolled within a specific MBA track. Up to six hours may be selected from outside the College of Business Administration. Courses outside the College of Business Administration must be selected with the student's area of interest and/or career objectives in mind and with the approval of the program adviser.

Other Requirements
0 Total Credits

- The satisfactory completion of an end-of-program comprehensive written examination is required. The MST program does not require a thesis.

Grand Total Credits: 30

Technology Ventures Graduate Certificate

College
College of Business Administration

Department
Department of Management

Program Website
business.ucf.edu/graduate-programs/

Program Contact Information

Cameron Ford PhD
Associate Professor
cbagrad@bus.ucf.edu
Telephone: 407-823-3700
Business Administration 345

Is this program available 100% online?
No

Program Description

This program has been temporarily suspended and is no longer accepting applications effective Summer 2017.

The Graduate Certificate in Technology Ventures is designed for those interested in creating and growing technology-based business ventures, including startups, corporate ventures and spin outs.

The associated courses offer insight into opportunity assessment, innovation diffusion, intellectual property issues, university-industry collaboration, technology business strategies, and business plan formulation.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree
Program Prerequisites

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

Application Requirements

Admission is open to those with documentation of a bachelor's degree from an accredited institution recognized by UCF or participation in a UCF graduate degree program. Students who maintain graduate standing in a UCF graduate degree program during the time required to complete a graduate certificate are eligible for this certificate. An application to the graduate certificate program, a current resume, and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Those applying who are NOT currently enrolled in a UCF graduate program must have a minimum of 2 years of full-time work experience after completion of the bachelor's degree.

Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: UCF-College of Graduate Studies
TOEFL: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete the following:
  - GEB6518 - Strategic Innovation (3)
  - GEB5516 - Technological Entrepreneurship (3)
  - GEB6116 - Business Plan Formation (3)

Grand Total Credits: 9

College of Community Innovation and Education

Academic Advising Graduate Certificate

College

College of Community Innovation and Education

Department

Department of Educational Leadership & Higher Education

Program Website

https://ccie.ucf.edu/elhe/higher-education/

Program Contact Information

Thomas Cox EdD
thomas.cox@ucf.edu
ED 315Q

Is this program available 100% online?

No
Program Description

The academic advising graduate certificate prepares professionals entering the field of academic advising to expand their knowledge of topics relevant to academic advising. Topics include learning theory, student development theory, retention theories, diversity issues, career development, and leadership in higher education. All students will complete a practical internship. The program also provides a benefit to practicing academic advisors, administrators and faculty interested in becoming more knowledgeable in these areas.

Total Credit Hours Required: 16 Credit Hours Minimum beyond the Bachelor’s Degree

Application Requirements

Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

The GRE is not required for admission to this program.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230

Online Application  
Graduate Admissions

Mailing Address  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Required Courses
6 Total Credits

- Complete the following:
  - EDH6047 - Theories of College Student Development (3)
  - EDH6105 - Retention Strategies in Colleges and Universities (3)

Elective Courses
9 Total Credits

- Complete at least 3 of the following:
  - EDH6081 - Contemporary Issues in Colleges (3)
  - EDH6204 - Leadership in College Organizations (3)
  - EDH6305 - Teaching and Learning in Colleges and Universities (3)
  - SDS6347 - Career Development (3)

Internship
1 Total Credits

- Complete all of the following
  - Earn at least 1 credits from the following:
    - EDH6946 - Internship (1 - 99)
  - Students will complete a 1 credit hour internship (15-20 hours) in an advising office or position approved by the faculty advisor. The literature on the subject of advising and retention concludes that college student success improves when college students make progress toward educational and career goals and when they are satisfied with the quality of educational programs, services, and environment. The changing structure of the university, the addition of faculty and the growing number of program and degree offerings demand more academic advisors.

Grand Total Credits: 16

Advanced Quantitative Methodologies in Educational and Human Sciences Graduate Certificate

College
College of Community Innovation and Education

Department
School of Teacher Education

Program Website
https://ccie.ucf.edu/methodology-measurement-and-analysis/

Program Contact Information
Stephen Sivo PhD
Professor
Stephen.Sivo@ucf.edu
Telephone: 407-823-4147
ED 222Q

Is this program available 100% online?
No

Program Description
The Advanced Quantitative Methodologies in Educational and Human Sciences graduate certificate provides advanced coursework for admitted UCF doctoral students and post-docs from any discipline to use quantitative data to answer complex research problems with sophisticated statistical procedures.

The coursework for the Advanced Quantitative Methodologies in Educational and Human Sciences certificate is broad-based enough to be useful for anyone interested in advancing their research and quantitative statistical skills, including students in other UCF colleges and local community service providers (e.g., evaluators, data analysts).

The graduate certificate in Advanced Quantitative Methodologies in Educational and Human Sciences requires 12 credit hours of courses selected from a list of approved courses.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Master's Degree
Application Requirements

Admission is open to those with a master's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Required Courses

12 Total Credits

- Complete at least 4 of the following:
  - EDF7405 - Quantitative Methods II (3)
  - EDF7406 - Multivariate Statistics in Education (3)
  - EDF7410 - Application of Nonparametric and Categorical Data Analysis in Education (3)
  - EDF7415 - Latent Variable Modeling In Education (3)
  - EDF7427 - Psychometrics (3)
  - EDF7474 - Multilevel Data Analysis In Education (3)
  - EDF7488 - Monte Carlo Simulation Research in Education (3)

Grand Total Credits: 12

Applied Behavior Analysis Graduate Certificate

College

College of Community Innovation and Education

Department

School of Teacher Education

Program Website

https://ccie.ucf.edu/teachered/exceptional-student-education/
Program Contact Information

Kelly D. Schaffer
Research Associate and Associate Director Toni Jennings Exceptional Education Institute
College of Community Innovation and Education
kelly.schaffer@ucf.edu

Eleazar Vasquez
Associate Professor and Director Toni Jennings Exceptional Education Institute
College of Community Innovation and Education
eleazar.vasquez@ucf.edu

Is this program available 100% online?

No

Licensure Disclosure

The ABA Certificate does not directly certify individuals in Applied Behavior Analysis; however, it can be listed as a Graduate Certificate in ABA as part of one's credentials. Completion of the certificate meets the coursework requirements for eligibility for National Board Certification as a Behavior Analyst.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Applied-Behavior-Analysis-GC.pdf.

Program Description

The Graduate Certificate in Applied Behavior Analysis (ABA) is housed within the Special Education program in the School of Teacher Education. The ABA graduate certificate program is designed to provide specialized coursework for students in Education, Psychology, Communication Disorders, and related fields. The program fulfills the coursework requirements of the Behavior Analyst Certification Board®.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree.

Program Prerequisites

Prerequisite or Corequisite

- EEX 6612 - Methods of Behavioral Management 3 Credit Hours

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF or those currently enrolled in or possessing a master's degree in education, psychology, or a related field. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline. The Applied Behavior Analysis Graduate Certificate program admits twice per year in the fall and summer terms only.

This program can only accommodate a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Individuals seeking national certification through the Behavior Analysis Certification Board (BACB) must obtain a master's degree in applied behavior analysis, education, psychology, or a related field; complete acceptable graduate coursework, complete a defined period of supervised practical experience and apply for the national board certification exam. For more information please visit the following website: https://www.bacb.com/bcba/bcba-requirements/.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete the following:
  - EEX6608 - Concepts and Principles in Applied Behavior Analysis (3)
  - EEX6619 - Advanced Behavior Analysis (3)
  - EEX6618 - Single Case Research Methodology (3)
  - EEX6668 - Radical Behaviorism (3)
  - EEX6669 - Supervision and Personnel Management in Applied Behavior Analysis (3)
  - EEX6747 - Ethics and Legal Issues in Applied Behavior Analysis (3)

Grand Total Credits: 18

Applied Learning and Instruction MA

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Program Website
https://ccie.ucf.edu/lser/applied-learning-and-instruction/

Program Handbook
Applied Learning and Instruction MA

Program Contact Information

Bobby Hoffman PhD
Associate Professor
bobby.hoffman@ucf.edu

Is this program available 100% online?
Yes
UCF Online

Please note: Applied Learning and Instruction (MA) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Master of Arts in Applied Learning and Instruction program is designed for students from diverse academic majors who have an interest in the application of psychological theories and research to improving learning, instruction, and training in a variety of instructional contexts.

Graduates of the program will be prepared for a wide range of professional education, government, and industry positions, and for conducting activities such as instruction, training, evaluation, and consulting.

Students can tailor the program to meet their particular needs and interests by choosing among a large variety of courses for their concentration, including courses in teaching, instructional design, program evaluation, and psychological foundations. Courses are available in mixed mode (M) or fully online (W). The degree can be completed in the fully online mode.

Specialization and core courses are offered in the areas of the psychology of teaching and learning, motivation, human development, measurement, and research methodology. Both a thesis and a non-thesis option are available. All non-thesis students will be required to complete a comprehensive examination before completing the program.

Applications are accepted only for Fall admission. There are no Spring or Summer applicants accepted.

The Applied Learning and Instruction MA (ALIMA) program requires a minimum of 33 credit hours beyond the bachelor’s degree including 15 credit hours of core courses, 12 credit hours of specialization, and 6 credit hours of a research component. The research component can be completed by choosing the thesis or non-thesis option, which requires a 6 credit hour Capstone research course. The program of study can be tailored to meet the specific needs of each student. The degree program can be completed in mixed mode (M) or fully online (W) formats.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor’s Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- A scholarly or professional writing sample (preferably an undergraduate academic paper).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Letters of recommendation are not needed or considered in the application process.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
27 Total Credits

Details

Core
15 Total Credits

Complete the following:

- EDF6481 - Fundamentals of Graduate Research in Education (3)
- EDP6213 - Seminar in Applied Learning and Instruction I (3)
- EDP6217 - Seminar in Applied Learning and Instruction II (3)
- EDF6216 - Motivation in Learning and Performance (3)
- EDF6155 - Lifespan Human Development and Learning (3)

Specialization (See Program Details For Further Information)
12 Total Credits

Earn at least 12 credits from the following:

- DEP5057 - Developmental Psychology (3)
- EDF6259 - Learning Theories Applied to Leadership in Teaching Practice (3)
- EDF6141 - Human Intelligence (3)
- SPS6225 - Behavioral and Observational Analysis of Classroom Interactions in Schools (3)
- SPS6700 - Advanced Psychoeducation and Data-Based Decision Making (3)
- EGC6431 - Guiding Human Relationships I (3)
- EGC6432 - Guiding Human Relationships II (3)
- INP6317 - Work Motivation and Job Attitudes (3)
- PSY6216C - Research Methodology (4)
- MAN6245 - Organizational Behavior and Development (3)
- MAN6285 - Change Management (3)
- EME6607 - Planned Change in Instructional Technology (3)
- EME6602 - Integration of Technology into the Learning Environments (3)
- EME6601 - Instructional Simulation Design for Training and Education (3)
- EME6457 - Distance Education: Technology Process Product (3)
- EME6613 - Instructional System Design (3)
- EME6405 - Adapting and Integrating Innovative Technologies in Education (3)
- EME6614 - Instructional Game Design for Training and Education (3)
- EME6705 - Administration of Instructional Systems (3)
- EME6055 - Current Trends in Instructional Technology (3)
- EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)
- EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
- EDG6415 - Principles of Instruction and Classroom Management (3)
- EDF6233 - Introduction to Action Research and Analysis of Classroom Practice (3)
- EME6217 - Curriculum Design (3)
- EME5053 - Electronic Resources for Education (3)
- EDF6401 - Statistics for Educational Data (3)
- EDF6432 - Measurement and Evaluation in Education (3)
- EDG6285 - Evaluation of School Programs (3)
- ESE6416 - Curriculum Evaluation (3)

Thesis/Nonthesis Option
6 Total Credits

Complete 1 of the following

Thesis Option

- Earn at least 6 credits from the following types of courses:
  - EDF 6971 - Thesis See "Program Details" section below for more information

Nonthesis Option

- Earn at least 6 credits from the following types of courses:
  - EDP 6936 - Capstone in Applied Learning and Instruction Six credit hours of Capstone coursework is required to give the student a foundation in conducting research.

Grand Total Credits: 33

Program Details

Specialization

Students have the choice of taking specialization courses in multiple areas. Specialization courses may be taken within one specialization, or from multiple specializations. The purpose of this choice is to provide course offerings which appeal to student interest, but concurrently facilitate depth of knowledge in a particular discipline.

The student, program director and student advisers together determine a course of study to meet the student's needs while simultaneously developing core knowledge in a specific area with the adviser's approval. In addition, the adviser may approve courses
taken as part of a UCF certificate program for this area of the MA (up to 12 credit hours). The adviser must approve all specialization courses.

**Psychological Foundations**

Other electives to be determined by adviser with program approval.
- DEP 5057 - Developmental Psychology **3 Credit Hours**
- EDF 6259 - Learning Theories Applied to Leadership in Teaching Practice **3 Credit Hours**
- EDF 6141 - Human Intelligence **3 Credit Hours**
- SPS 6225 - Behavioral and Observational Analysis of Classroom Interactions in Schools **3 Credit Hours**
- SPS 6700 - Advanced Psychoeducation and Data-Based Decision Making **3 Credit Hours**
- EGC 6431 - Guiding Human Relationships I **3 Credit Hours**
- EGC 6432 - Guiding Human Relationships II **3 Credit Hours**

**Business/Training**

Other electives to be determined by adviser with program approval.
- INP 6317 - Work Motivation and Job Attitudes **3 Credit Hours**
- PSY 6216C - Research Methodology **4 Credit Hours**
- MAN 6245 - Organizational Behavior and Development **3 Credit Hours**
- MAN 6285 - Change Management **3 Credit Hours**

**Instructional Design**

Other electives to be determined by adviser with program approval.
- EME 6607 - Planned Change in Instructional Technology **3 Credit Hours**
- EME 6602 - Integration of Technology into the Learning Environments **3 Credit Hours**
- EME 6601 - Instructional Simulation Design for Training and Education **3 Credit Hours**
- EME 6457 - Distance Education: Technology Process Product **3 Credit Hours**
- EME 6613 - Instructional System Design **3 Credit Hours**
- EME 6405 - Adapting and Integrating Innovative Technologies in Education **3 Credit Hours**
- EME 6614 - Instructional Game Design for Training and Education **3 Credit Hours**
- EME 6705 - Administration of Instructional Systems **3 Credit Hours**
- EME 6055 - Current Trends in Instructional Technology **3 Credit Hours**

**Teaching**

Other electives to be determined by adviser with program approval.
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment **3 Credit Hours**
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education **3 Credit Hours**
- EDG 6415 - Principles of Instruction and Classroom Management **3 Credit Hours**
- EDF 6733 - Introduction to Action Research and Analysis of Classroom Practice **3 Credit Hours**
- ESE 6217 - Curriculum Design **3 Credit Hours**
- EME 5053 - Electronic Resources for Education **3 Credit Hours**

**Program Evaluation**

Other electives to be determined by adviser with program approval.
- EDF 6401 - Statistics for Educational Data **3 Credit Hours**
- EDF 6432 - Measurement and Evaluation in Education **3 Credit Hours**
- EDG 6285 - Evaluation of School Programs **3 Credit Hours**
- ESE 6416 - Curriculum Evaluation **3 Credit Hours**

**Steps for Completing a Master's Thesis**

1. Submit a 2–3 page thesis prospectus and preliminary bibliography on a topic to their thesis adviser. Prior to enrollment into thesis credit hours, the student will identify a Thesis Committee to be further approved by the College Graduate Dean and the College of Graduate Studies. This committee is chaired by the adviser and includes two or more additional faculty members (minimum of 3 committee members required).
2. The formal thesis is initiated by the preparation of a proposal that meets both departmental and university requirements for the thesis. The members of the student's thesis committee review the proposal as the preliminary step to beginning the thesis. Students are responsible for sending their proposal to all committee members at least three weeks before the end of the semester. This committee must approve the Thesis Proposal before academic credit can accrue.
3. Once the proposal is approved by both the committee and the UCF Institutional Review Board, students should begin collecting and analyzing their data. Students should expect to defend their proposal during the semester in which they are enrolled for thesis credits.
4. The thesis is a formal written document. The introduction cites similar, related, and antecedent work. The body explains the purposes of the project, the method of its production, and any evaluation that was performed. The conclusion includes plans for future work. The thesis also includes an archival copy of the resulting creative product. Both the thesis and the creative product must be delivered in digital form, acceptable by the College of Graduate Studies and UCF library according to standards for digital dissertations and theses.

**Scholarly Product Requirement (Review 1)**
Before the end of three years in the ALIMA program, students are required to submit evidence of their ability to conduct a scholarly examination of research in a chosen area in the field of educational psychology or another discipline as agreed upon with their advisor. They will demonstrate this ability by producing a scholarly review of literature to present a thorough overview of research surrounding a particular problem involving learning and/or instruction. As part of the review, students will present a list of research and theory-based potential solutions to the identified problem. This project will be introduced in the Seminar in Applied Learning and Instruction I and completed the following semester in Seminar in Applied Learning and Instruction II.

Comprehensive Exams (Review II)
The comprehensive exams serve as the culminating experience of the ALIMA program. The comprehensive exam must be completed no later than 10 days before the end of the semester in which the student graduates. Exams are offered at regularly scheduled times.

Nonthesis Option
For students electing not to write a thesis, the comprehensive exam will consist of three questions. The student will have one week to answer the questions in a take-home, extended essay file format. Students must cite all instances where their ideas are directly or indirectly related to outside sources. Students may not consult with other students or use Wikipedia or other online sources to complete their exams. Exams will be graded based on a pass or fail basis. Students who fail the exam marginally may be asked to rewrite specific questions. Students who fail the exam may be requested by their adviser to retake courses in areas of deficiency and will not be eligible to receive their master's degree until the exam is passed.

Thesis Option
For students electing to submit a thesis, their comprehensive exam will take place as an oral exam no less than 3 weeks after the final version of their thesis is submitted to their committee. During the oral exam, students will be asked to defend their thesis, as well as respond to questions that require them to integrate and synthesize information learned in their core courses.

Independent Learning
The MA program requires the completion of a research project. Research projects are independent learning activities in which students must apply, reflect upon, and refine knowledge and skills required in the program. By the end of the third year in this program, each student must satisfy a scholarly product requirement (Review I). This requirement can be met in one of two ways: students can submit a research study to a refereed journal (with faculty assistance), or submit a proposal for a presentation at an annual conference of a national or local organization (from an approved list of resources). The student must be primarily responsible for conceptualizing, carrying out, and reporting the results in both options. The student is responsible for obtaining approval of the product from his or her master’s committee.

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student’s graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Autism Spectrum Disorders Graduate Certificate

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology
Program Website
https://ccie.ucf.edu/teachered/exceptional-student-education/

Program Contact Information
Kelly D. Schaffer, PhD
Research Associate and Associate Director Toni Jennings Exceptional Education Institute
kelly.schaffer@ucf.edu

Eleazar Vasquez, PhD
Associate Professor and Director Toni Jennings Exceptional Education Institute
eleazar.vasquez@ucf.edu
Telephone: 407-823-6705
ED 315F

Is this program available 100% online?
Yes

UCF Online

Please note: Autism Spectrum Disorders Graduate Certificate may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

The Autism Spectrum Disorders (ASD) graduate certificate program is state-approved by the Florida Department of Education as meeting requirements for adding an ASD endorsement to existing teacher certification (Administrative Rule 6A-4.01796). The Autism Spectrum Disorders Graduate Certificate has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Autism-Spectrum-GC.pdf.

Program Description

The Graduate Certificate in Autism Spectrum Disorders (ASD) provides additional training for professionals with a specific focus on knowledge, skills, and competencies for working with students with ASD.

The program is composed of four graduate courses that can be incorporated into a master's program of study in Exceptional Student Education or taken as an add-on to an undergraduate or graduate degree. Each course includes a field-based component. Students may complete field-based assignments in their own classrooms or schools if they serve students with ASD. There are also opportunities to complete these assignments at Project ASD demonstration sites.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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2021-2022 Graduate Catalog
**Graduate School Contact**

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

Required Courses  
12 Total Credits

- Complete the following:
  - EEX6246 - Nature of Autism: Theory and Educational Practice (3)
  - SPA6437 - Communication Foundations and Assistive/Instruction Technology for Communication (3)
  - EEX6297 - Assessment, Diagnosis, and Curriculum Prescriptions for Students with Autism (3)
  - EEX6612 - Methods of Behavioral Management (3)

Grand Total Credits: **12**

**Program Details**

*As per Graduate Certificate Program Policies, students may substitute electives as approved by the program director if they have already taken EEX 6297 and EEX 6246 in the Severe or Profound Disabilities Certificate.*

**Career and Technical Education MA**

**College**  
College of Community Innovation and Education

**Department**  
Department of Educational Leadership & Higher Education

**Program Website**

https://ccie.ucf.edu/elhe/career-and-technical-education/

**Program Handbook**

Career and Technical Education MA

**Program Contact Information**

Lisa Martino, PhD  
Lecturer  
CTE Academic Program Coordinator  
lisa.martino@ucf.edu  
Telephone: 407-823-6184  
ED 220C

**Is this program available 100% online?**

Yes
Please note: Career and Technical Education (MA) may be completed fully online, although not all elective course options or course prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF Online may enroll with a reduction in campus-based fees.

This program is not an initial teacher professional education certificate program.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/.

UCF is authorized to provide online courses or instruction to students in all states. Refer to State Authorizations for current information.

Program Description

The Career and Technical Education MA program prepares students pursuing leadership and administrative positions in career and technical education (CTE) as well as workforce education, talent development, and corporate training. This program is designed for individuals whose goal is to become a manager, coordinator, director, curriculum specialist, dean, or lead faculty in career and workforce education programs in various disciplines located in the following institutions: secondary and post-secondary schools (technical centers, community colleges, state colleges, and universities); vocational rehabilitation colleges; corporations and industry; military; and professional associations and organizations.

CTE Graduate Program Vision Statement: All CTE leaders are academic scholars.

CTE Graduate Program Mission Statement: To develop effective educational leaders who are career and workforce education expert scholars.

Our Goal: The Career and Technical Education graduate programs place an emphasis on the students’ development of academic research and scholarly writing that contribute to strong leadership skills in their individual fields of study.

The Career and Technical Education MA program requires a minimum of 39 credit hours beyond the bachelor’s degree, including 18 credit hours of career education core courses and 18 credit hours of advisor-approved courses focused on specialization within a discipline. The program also requires an internship/directed-field experience course (3 credit hours) OR a research report course (3 credit hours). Passing a comprehensive examination at the end of the program is a graduation requirement.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor’s Degree

Program Prerequisites

Bachelor’s degree from an accredited institution recognized by UCF with a 3.0 GPA or above.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate admission requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Essay, 1-2 pages, on career goals and program alignment.
- Resume/CV
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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<tr>
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<td>Jul 1</td>
<td>Nov 1</td>
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</table>
Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Late applications will be considered on a space-available basis.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses - Career Education
18 Total Credits

- Complete the following:
  - ECW5561 - Student Guidance in the Career/Workforce Program (3)
  - ECW6067 - History of Career Education in the United States (3)
  - ECW6105 - Career Education Curriculum Planning and Implementation (3)
  - ECW6268 - School, College, and Career Readiness (3)
  - ECW6666 - Issues in Career Education (3)
  - ECT6791 - Research in Career Education (3)

Elective Courses in Specialization
18 Total Credits

- Complete all of the following:
  - Area of specialization may include career and technical education (CTE), health, technical training, corporate training, adult education, business education, graduate certificates, or another area approved by the advisor. Please note: Some elective courses shown may be applied to the Local Director for Career and Technical Education Certification through the State of Florida. For more information, please review the Florida Department of Education teacher certification website. Consult with an advisor to complete the Graduate Plan of Study.
  - Career and Technical Education (CTE) Elective Courses
    - Students who wish to specialize in career and technical education may choose from the following list of CTE elective courses. Other courses/graduate certificates may be considered upon approval of the advisor.
      - Complete the following:
        - BTE6935 - Seminar in Business Education (3)
        - ECW5207 - Management of Career Education Programs (3)
        - ECW6205 - Administration of Local Career Education Programs (3)
        - ECW6206 - Supervision in Local Career and Technical Education Programs (3)
        - ECW6695 - School/Community Relations for Career and Technical Education Programs (3)
        - ECW5265 - Experiential Learning in Career and Workforce Education Programs (3)
  - Education Foundation Electives
    - Students may choose courses from this list if planning to work in a traditional educational institution and wish to work with postsecondary students at the administrative level. Other courses/graduate certificates may be considered upon approval of the advisor.
      - Earn at least 18 credits from the following:
        - IDS6504 - Adult Learning (3)
        - EDF6155 - Lifespan Human Development and Learning (3)
        - EDF6401 - Statistics for Educational Data (3)
        - EDF6432 - Measurement and Evaluation in Education (3)
        - EDF6481 - Fundamentals of Graduate Research in Education (3)
        - EDF6886 - Multicultural Education (3)
        - ECW5265 - Experiential Learning in Career and Workforce Education Programs (3)
  - Research Report/Internship Option
    - 3 Total Credits
      - Complete 1 of the following:
        - The research report course is an option for students who wish to go onto to a doctorate program. The course consists of further study into research and scholarly writing. The internship course is a learning activity that takes place in a face-to-face or web-based authentic setting in which students must apply, reflect upon, and refine knowledge and skills acquired in the program.
        - Research Report Option
          - Earn at least 3 credits from the following:
            - ECT6909 - Research Report
        - Internship Option
          - Earn at least 3 credits from the following:
            - ECT6946 - Graduate Internship (0 - 99)

Grand Total Credits: 39
Program Details

The six Career Education Core classes combine to provide students with an in-depth analysis of career education from its inception to future trends. These courses will provide a solid foundation in career and technical/workforce education. With 18 credit hours (six courses) in career education graduate courses and 18 credit hours (six courses) in a discipline-specific field of study, the student will be considered a subject matter expert in career and technical education AND a subject matter expert in a discipline-specific field.

This program provides the flexibility of choosing electives for subject matter expertise in Career and Technical Education (CTE), in Educational Foundation, or in a discipline-specific graduate certificate that allows for a personalized degree program.

The internship/directed-field experience course takes place in a face-to-face or web-based authentic setting in which students must apply, reflect upon, and refine knowledge and skills acquired in the program. The internship experience gives students insight and hands-on experience while being observed and mentored by a supervising teacher and UCF faculty member. In lieu of the internship, students may choose the research report course option, which may be helpful if considering an educational pathway to a doctorate.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Career Counseling Graduate Certificate

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Program Website
https://ccie.ucf.edu/cesp/counselored/

Program Contact Information
Stacy Van Horn PhD
Stacy.VanHorn@ucf.edu
Telephone: 407-823-2401
ED 322M

Is this program available 100% online?
No
Program Description

The Graduate Certificate in Career Counseling is housed within the Counselor Education Program in the College of Community Innovation and Education. The certificate program is designed to provide advanced training to students in the Counselor Education program and for practicing counselors, therapists, student advisors and career coaches who want to provide career counseling or consultation services.

The certificate requires the completion of three graduate courses addressing foundations, theories, assessment, techniques, and applications of career counseling and development. SDS 6347 - Career Development and SDS 6622 - Career and College Readiness in Schools PK-12 are both prerequisites for the final capstone course, Applied Practice in Career Services. The fourth course is a graduate-level specialization elective in a specific academic discipline that can be taken at any point within the career certificate program.

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Career Counseling Graduate Certificate</th>
<th>Fall</th>
<th>Spring</th>
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<td>Domestic Applicants</td>
<td>Jun 1</td>
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<td>International Applicants</td>
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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete the following:
  - SDS6347 - Career Development (3)
  - SDS6622 - Career and College Readiness in Schools PK-12 (3)
  - SDS6308 - Applied Practice in Career Services (3)

Elective Course (Students may choose to specialize in a specific academic discipline or tailor their own areas of concentration)
3 Total Credits

- Complete at least 1 of the following:
  - EDH6635 - Organization and Administration of Higher Education (3)
  - MH6020 - Mental Health Care Systems (3)
  - MAN6305 - Human Resources Management (3)
  - SDS6620 - Coordination of Comprehensive Professional School Counseling Programs (3)
  - SOW5305 - Social Work Practice I: Generalist Practice (3)
  - EDH6081 - Contemporary Issues in Colleges (3)

Grand Total Credits: 12
Collaborative Intervention Specialist Graduate Certificate

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Program Website
https://ccie.ucf.edu/exceptional-student-education/

Program Contact Information
Mary Little PhD
Professor
mary.little@ucf.edu
Telephone: 407-823-3275
ED 315J

Is this program available 100% online?
No

Program Description
The Collaborative Intervention Specialist graduate certificate provides advanced coursework for educational leaders to use school-based and classroom instructional data to meet the instructional and intervention needs of all students, including at-risk and struggling students, beyond the typical, initial classroom instruction within a multi-tiered system of supports.

This certificate will provide an advanced, multi-disciplinary theoretical approach and applied knowledge base to experienced educators.

Coursework focuses on knowledge, skills and competencies for working with students within an intervention framework. The Collaborative Intervention Specialist certificate is multi-disciplinary and includes coursework in exceptional student education, school psychology, reading education, and math education. The graduate courses provide an opportunity for students to complete the Intervention Specialist certificate beyond the undergraduate degree. Should a student wish to earn a master's degree, the courses in the certificate could be applied to one of several Master of Education degree programs in the College of Community Innovation and Education.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor’s Degree

Application Requirements
Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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</table>
**Graduate School Contact**

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

**Required Courses**  
6 Total Credits

- Complete the following:
  - EEX6218 - Diagnostic Assessment and Intervention Planning in Exceptional Education (3)  
  - SP56700 - Advanced Psychoeducation and Data-Based Decision Making (3)

**Elective Courses**  
6 Total Credits

- Complete 1 of the following
  - Option 1
    - Complete the following:
      - SPS5605 - Building and Improving Relationship and Emotional Intelligence (3)  
      - EEX6061 - Instructional Strategies Pre-K-6 (3)
  - Option 2
    - Complete the following:
      - MAE6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher (3)  
      - RED5517 - Classroom Diagnosis and Development of Reading Proficiencies (3)

Grand Total Credits: **12**

**College Teaching and Leadership Graduate Certificate**

**College**

College of Community Innovation and Education

**Department**

Department of Educational Leadership & Higher Education

**Program Website**

https://www.ucf.edu/degree/college-teaching-and-leadership-certificate/

**Program Contact Information**

Thomas Cox EdD  
thomas.cox@ucf.edu  
ED 220Q

**Is this program available 100% online?**

Yes
**UCF Online**

**Please note:** College Teaching and Leadership Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

**Program Description**

The College Teaching and Leadership Graduate Certificate prepares students to become campus leaders at all organizational levels of colleges, state colleges, and universities, as well as the college-level classroom.

The certificate consists of five graduate courses that cover all facets of community college education. The courses are available completely online in a web-based format.

**Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree**

**Application Requirements**

Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

**Graduate Application Deadlines**

<table>
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<tr>
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**Graduate School Contact**

**Brandon Ruff**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

Required Courses  
15 Total Credits

- Complete the following:
  - EDH6053 - The Community College in America (3)  
  - EDH6081 - Contemporary Issues in Colleges (3)  
  - EDH6204 - Leadership in College Organizations (3)  
  - EDH6215 - The College Curriculum (3)  
  - EDH6305 - Teaching and Learning in Colleges and Universities (3)

Grand Total Credits: **15**

**Conflict Resolution and Analysis Graduate Certificate**
**College**
College of Community Innovation and Education

**Department**
Department of Legal Studies

**Program Website**
https://ccie.ucf.edu/legalstudies/programs/

**Program Contact Information**

**Christy L. Foley, J.D.**
Visiting Lecturer
Office: DPAC 430
Phone: 407-823-1670
Christy.Foley@ucf.edu

**Sean Donovan**
Office: DPAC 430
Phone: 407-823-0558
Sean.Donovan@ucf.edu

**Is this program available 100% online?**
Yes

**UCF Online**

**Please note:** Conflict Resolution and Analysis Graduate Certificate may be completed online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

This program is not open to international students. If you have questions, please consult UCF Global at 407-823-2337.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit [http://global.ucf.edu/](http://global.ucf.edu/). If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

**Program Description**
The graduate certificate in Conflict Resolution and Analysis provides a deeper understanding of the origins and root causes of conflict. Conflict is rampant in society, ranging from personal and workplace conflicts to global conflicts. Students will learn strategies for managing and resolving interpersonal and community conflicts, which are essential in the community and workplace. This certificate will be attractive to students planning to attend law school, legal professionals, social workers, law enforcement, business professionals, and those in education, to name a few.

**Total Credit Hours Required: 15 Credit Hours**

**Application Requirements**

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

**Graduate Application Deadlines**

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<th>Conflict Resolution and Analysis Certificate</th>
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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: 5233
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
6 Total Credits

- Complete the following:
  - PLA6247 - Conflict Resolution Theory (3)
  - PLA6515 - Understanding Human Behavior and Conflict (3)

Electives
6 Total Credits

- Complete at least 2 of the following:
  - COM6046 - Interpersonal Communication (3)
  - COM6047 - Interpersonal Support in the Workplace (3)
  - COM6145 - Organizational Communication (3)
  - COM6425 - Symbolism in Terrorism (3)
  - COM6463 - Studies in Intercultural Communication (3)
  - COM6467 - Studies in Persuasion (3)
  - COM6468 - Communication and Conflict (3)
  - MAN6448 - Conflict Resolution and Negotiation (3)
  - PAD6397 - Managing Emergencies and Crises (3)
  - PAD6439 - Leadership in Public Service (3)
  - PAD6705 - Public Sector Communications (3)
  - PLA6245 - Advanced Applied Negotiation and Conflict Resolution (3)
  - PLA6486 - Administrative Law (3)

Required Practicum Experience
3 Total Credits

- Students must complete the two required courses (PLA 6247 and PLA 6515) before enrolling in the practicum experience. In addition, practicum must be taken in the last semester.

Course
3 Total Credits

- Complete the following:
  - PLA6246 - Advanced Mediation and Conflict Resolution Practicum (3)

Grand Total Credits: 15

Program Details

Minimum grades of B- required in each class used to satisfy the certificate and overall GPA of 3.0 required to graduate from the certificate program.

Corrections Leadership Graduate Certificate

College

College of Community Innovation and Education
Department
Department of Criminal Justice

Program Website
https://ccie.ucf.edu/criminaljustice/

Program Contact Information
Eugene Paoline, III PhD
Professor
Eugene.Paoline@ucf.edu
Telephone: 407-823-2603
HS1, RM 321

Elexis Ritz
elexis.ritz@ucf.edu
Telephone: 407-823-6093
HS1 311

Is this program available 100% online?
Yes

UCF Online
Please note: Corrections Leadership Graduate Certificate may be completed fully online, although not all elective options may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters and be part of another degree seeking program. Only 3 of the 9 credit hours may be taken in a completely online format. International applicants should be aware the program may not offer sufficient on-campus courses for F or J visa holders. Please contact the program for more information before applying. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description
The Graduate Certificate in Corrections Leadership is designed to provide a theoretical and practical knowledge base for correctional practitioners in the areas of criminal justice, public administration, and social work.

Corrections Leadership is a rapidly growing area of criminal justice. Private, state, and federal agencies are seeking qualified managers and leaders to meet the changing needs of the twenty-first century. Leaders of correctional facilities and programs should be prepared to meet the challenges of changing policies and effectively deal with the management of budgets, grants, cooperative agreements, and other inter-governmental projects.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Corrections Leadership Graduate Certificate</th>
<th>*Fall Priority</th>
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<th>Spring</th>
<th>Summer</th>
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<td>International Applicants</td>
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</tbody>
</table>
Graduate School Contact
Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
6 Total Credits

- Complete the following:
  - CJC5020 - Foundations of Corrections (3)
  - CCJ5456 - The Administration of Justice (3)

Elective Courses
6 Total Credits

- Complete at least 2 of the following:
  - CCJ6051 - Community Justice (3)
  - CCJ6106 - Policy Analysis in Criminal Justice (3)
  - CCJ6335 - Criminal Justice Sentencing and Punishment Policy (3)
  - CCJ6431 - Leadership and Ethics in Criminal Justice (3)
  - CCJ6118 - Criminal Justice Organizations (3)
  - CCJ5015 - The Nature of Crime (3)
  - CJL6568 - Law and Social Control (3)
  - PAD6417 - Human Resource Management (3)
  - SOW6712 - Clinical Social Work Practice with Substance Addictions (3)

Grand Total Credits: 12

Program Details

PAD 6417 - Human Resource Management 3 Credit Hours
This course has a prerequisite of PAD 6700. Contact the School of Public Administration for a possible override.

Counselor Education MEd

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Program Website
https://ccie.ucf.edu/cesp/counselored/

Program Handbook
Counselor Education MEd
**Program Contact Information**

**Stacy Van Horn, PhD**
Associate Lecturer
Stacy.VanHorn@ucf.edu
Telephone: 407-823-2401
ED 322M

**Is this program available 100% online?**
No

**Licensure Disclosure**
For information on how this program may prepare you for professional licensure, please visit https://apq.ucf.edu/licensure-programs/.

**Program Description**
The CACREP Accredited Counselor Education Master of Education, School Counseling track, is designed for the student planning to seek certification as a professional school counselor in pre-K through postsecondary school settings. This track (as opposed to the Counselor Education Master’s of Arts, School Counseling track) is for students who have a bachelor’s degree in education and have completed course work for teaching certification and plan to seek certification in school counseling.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and field-based experiences in the community. The UCF Community Counseling and Research Center serves as a hub for training and research in the program, with graduate students providing counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy. The CCRC serves more than 1400 individuals, couples, and families in the central Florida community.

This degree has 1 track: School Counseling. Please scroll to the bottom of this page for further details on this Track.

**Application Requirements**
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

**Graduate School Contact**

**Brandon Ruff**
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

**Mailing Address**
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

**Financial Information**
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Counselor Education MEd - Counselor Education MEd, School Counseling Track

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Track Website
https://ccie.ucf.edu/cesp/counselored/

Track Contact Information
Stacy Van Horn, PhD
Associate Lecturer
Stacy.VanHorn@ucf.edu
Telephone: 407-823-2401
ED 322M

Is this track available 100% online?
No

Licensure Disclosure
Students enrolled in the CACREP accredited School Counseling track should remain in close contact with their advisor to keep informed of any programmatic changes implemented to comply with new state requirements. The Counselor Education MEd, School Counseling track has potential ties to professional certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Counselor-Ed-School-Counseling-MEd.pdf.

Track Description
The CACREP Accredited Counselor Education Master of Education, School Counseling track, is designed for the student planning to seek certification as a professional school counselor in pre-K through postsecondary school settings. This track (as opposed to the Counselor Education Master’s of Arts, School Counseling track) is for students who have a bachelor's degree in education and have completed course work for teaching certification and plan to seek certification in school counseling.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and field-based experiences in the community. The UCF Community Counseling and Research Center serves as a hub for training and research in the program, with graduate students providing counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy. The CCRC serves more than 1400 individuals, couples, and families in the central Florida community.

The Counselor Education Master of Education, School Counseling track requires a minimum of 51 credit hours beyond the bachelor's degree, including 6 credit hours of core courses, 30 credit hours of specialization, 9 credit hours of professional clinical experiences, and 6 credit hours of electives in either the nonthesis or thesis option.

Total Credit Hours Required: 51 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
Students must have, or be eligible for, the Florida Professional Teaching Certificate.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken in the last five years.
- MED applicants must be eligible for certification or hold a current Florida Professional Teaching Certificate prior to the start of their first term. All other applicants should apply to the Counselor Education MA, School Counseling Track
- Three letters of recommendation.
- Résumé.
- Goal statement (see the Program website for additional information about the Goal statement).

Applicants who have graduated from an accredited university or college teacher certification program in another state or country, in the appropriate subject and/or grade range, may also be admitted to the Counselor Education - School Counseling MEd track at the discretion of the program director.

The Master’s of Education in Counselor Education - School Counseling track can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

The College of Community Innovation and Education reserves the right to refuse student entrance or terminate a student after admission to the Counselor Education Program, if in the judgment of the faculty, the student demonstrates unacceptable personal fitness to work in the counseling field with children, youth, and/or adults.

A formal interview is required and will be scheduled after the program admission requirements are met. The interview dates are posted on the Counselor Education Program website. Upon admittance, it is required that students attend the program orientation session that occurs on the Thursday before classes begin in the semester to which the student applied.

Graduate Application Deadlines

<table>
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<th>School Counseling</th>
<th>*Fall Priority</th>
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</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
36 Total Credits
- Details

Core
6 Total Credits
- Complete the following:
  - EDF6155 - Lifespan Human Development and Learning (3)
  - EDF6155 - Lifespan Human Development and Learning (3)

Specialization
30 Total Credits
- Complete the following:
  - MHS5005 - Introduction to the Counseling Profession (3)
  - MHS6220 - Individual Psychoeducational Testing I (3)
  - MHS6400 - Theories of Counseling and Personality (3)
  - MHS6401 - Techniques of Counseling (3)
  - MHS6420 - Foundations of Multicultural Counseling (3)
  - MHS6500 - Group Procedures and Theories in Counseling (3)
  - SDS6347 - Career Development (3)
  - SDS6411 - Counseling with Children and Adolescents (3)
  - SDS6620 - Coordination of Comprehensive Professional School Counseling Programs (3)
  - SDS6620 - Coordination of Comprehensive Professional School Counseling Programs (3)

Thesis/Nonthesis Option
6 Total Credits
- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - EGC 6971 - Thesis
  - Nonthesis Option
    - Earn at least 6 credits from the following types of courses:
      - Two approved electives

Professional Clinical Experience
9 Total Credits
- Complete all of the following
  - The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients and students. The practicum is conducted either on campus in the UCF Community Counseling and Research Center or at one of the CCRC’s partner schools in the community. Internship, which is usually completed in one semester (for 6-credit hours) is conducted at various schools around central Florida. The Internship can be divided into two semesters.
  - Complete the following:
    - MHS6803 - Practicum in Counselor Education (3)
  - Prerequisites for MHS 6803 - Practicum in Counselor Education are the following: MHS 5005, MHS 6400, MHS 6401, MHS 6500, and SPS 6815. MHS 6420 and SDS 6411 are also pre or co-requisites for MHS 6803. A minimum of 27 credit hours are required prior to beginning the practicum.
  - Earn at least 6 credits from the following:
    - SDS6947 - Internship in Professional School Counseling (1 - 6)
  - The prerequisites for SDS 6947 - Internship in Professional School Counseling include SDS 6620 and earning a "B" or better in MHS 6803.

Grand Total Credits: **51**
Track Details

Additional Program Requirements

- Achieve at least a GPA of 3.0 throughout the degree program.
- Achieve a “B” or better in MHS 5005, MHS 6401, MHS 6803 and SDS 6947.
- Complete a total of 700 hours of clinical experiences, 100 of which will be in the UCF Community Counseling and Research Center (or an area school) and 600 of which are field-based experiences in the community.
- Complete a portfolio and receive approval by Counselor Education faculty.
- Complete a professional exit examination.
- Given the experiential, competency, and performance-based nature of the courses taken by Counselor Education students, students are limited to taking a maximum of three (3) courses per semester (with some variability for those in the School Counseling track). However, if students believe that they can verify a need to take more than three courses, they should consult with their academic advisor for guidance on the procedure. Students who have not received prior approval and who register for more than three courses per semester will be administratively dropped from any courses over the maximum load.

Independent Learning

Practica and internships are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program. The internship experience provides students with the practical experience of facilitating a comprehensive, professional school counseling program in a school setting (e.g., leading classroom guidance lessons, facilitating group counseling, providing individual counseling services). All clinical experiences are performed under the direct supervision of an onsite certified school counselor.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Counselor Education MA

College

College of Community Innovation and Education

Department

Department of Counselor Education & School Psychology

Program Website

https://ccie.ucf.edu/cesp/counselored/

Program Handbook

Counselor Education MA
Program Contact Information

W. Bryce Hagedorn PhD
Professor and Program Coordinator
counsel@ucf.edu
Telephone: 407-823-2401
Education 322N

Is this program available 100% online?
No

Licensure Disclosure

Applicants considering this program should contact their State Licensure Board to verify the courses required. For information on how this program may prepare you for professional licensure, please visit https://apq.ucf.edu/licensure-programs/.

Program Description

The College of Community Innovation and Education offers CACREP accredited graduate degrees in Counselor Education (with tracks in Clinical Mental Health Counseling and School Counseling) and Marriage, Couple, and Family Therapy. The Clinical Mental Health Counseling track prepares students for licensure in mental health counseling and to practice in agencies, private practices, and other settings. The School Counseling track prepares students for certification as a professional school counselor in Pre-K through post-secondary school settings. The Marriage, Couple, and Family Therapy program prepares students for licensure in marriage and family therapy and to practice in agencies, private practices, and other settings.

Please scroll to the bottom of this page for further details on these Tracks.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and field-based experiences in the community. The UCF Community Counseling and Research Center serves as a hub for training and research in the program, with graduate students providing counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy. The CCRC serves more than 1400 individuals, couples, and families in the central Florida community.

Because the programs in Counselor Education (Clinical Mental Health Counseling and School Counseling Tracks) and Marriage, Couple, and Family Therapy are CACREP accredited and prepare students for licensure and/or certification as professional counselors, students must be formally admitted to the program in order to take any program area courses. There are three exceptions to this restriction: (1) non-degree seeking students interested in exploring the program prior to admission may take MHS 5005 - Introduction to the Counseling Profession, pending available space after admitted students have been placed in the course; (2) individuals who already possess a master's degree (or above) in counseling or a related field (i.e. psychology or social work) and are taking courses toward Florida licensure in (a) MHC, and thus may take MHS 6020 - Mental Health Care Systems, MHS 6070 - Diagnosis and Treatment in Counseling, MHS 6450 - Addictions Counseling, and/or MHS 6470 - Human Sexuality and Relationships, or; (b) MFT, and thus may take MHS 6430 - Family Counseling I, MHS 6431 Family Counseling II (MHS 6430 is the pre-requisite), and/or MHS 6440 Couples Counseling - enrollment in any of these courses is pending available space after admitted students have been enrolled.

The Master’s of Arts in Counselor Education--School Counseling MA track is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Please note that Marriage, Couple, and Family Therapy MA Program is a separate degree but still part of the Counselor Education program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track (i.e., Clinical Mental Health Counseling or School Counseling) in this program. Applicants for the Marriage, Couple, and Family Therapy program should apply to that program by selecting the program alphabetically from the listing. Tracks may have different requirements.
Graduate School Contact

Brandon Ruf
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Counselor Education MA - Counselor Education MA, Clinical Mental Health Counseling Track

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Track Website
https://ccie.ucf.edu/cesp/counselored/

Track Handbook
Counselor Education MA - Clinical Mental Health Counseling Track
Track Contact Information
Dalena Dillman-Taylor, PhD
Associate Professor
Dalena.Taylor@ucf.edu
Telephone: 407-823-2401
ED 322R

Is this track available 100% online?
No

Licensure Disclosure
The CACREP accredited Clinical Mental Health Counseling track in the Counselor Education MA program prepares students for licensure in Florida as a Mental Health Counselor in order to practice in agencies, private practices, and other settings. Applicants considering this program should contact their State Licensure Board to verify the courses required. The Counselor Education MA, Clinical Mental Health Counseling track has potential ties to professional licensure or certification in the field.

For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Counselor-Ed-Clinical-Mental-Health-MA.pdf.

Track Description
The CACREP accredited Clinical Mental Health Counseling track in the Counselor Education MA program prepares students for licensure in Clinical Mental Health Counseling and to practice in agencies, private practices, and other settings.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and field-based experiences in the community. The UCF Community Counseling and Research Center serves as a hub for training and research in the program, with graduate students providing counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy. The CCRC serves more than 1400 individuals, couples, and families in the central Florida community.

The Clinical Mental Health Counseling track requires a minimum of 63 credit hours beyond the bachelor's degree, including 6 credit hours of core courses, 39 credit hours of specialization (including a 3 credit hour elective), 12 credit hours of professional clinical experiences, and 6 credit hours of electives in either the nonthesis or thesis option.

Total Credit Hours Required: 63 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken in the last five years.
- Three letters of recommendation.
- Résumé.
- Goal statement (see the Program website for additional information about the Goal statement).

The Master's of Arts in Counselor Education- Clinical Mental Health Counseling track can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

The College of Community Innovation and Education reserves the right to refuse student entrance or terminate a student after admission to the Counselor Education Program, if in the judgment of the faculty the student demonstrates unacceptable personal fitness to work in the counseling field with children, youth, and/or adults.

A formal interview is required and will be scheduled after the program admission requirements are met. The interview dates are posted on the Counselor Education Program website. Upon admittance, it is required that students attend the program orientation session that occurs on the Thursday before classes begin in the semester to which the student applied.

Graduate Application Deadlines

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<th>Clinical Mental Health Counseling</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<td>Jan 15</td>
<td>Feb 1</td>
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<td>International Applicants</td>
<td>Jan 15</td>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
45 Total Credits

- Core and Specialization

Core
6 Total Credits

- Complete the following:
  - EDF6155 - Lifespan Human Development and Learning (3)
  - EDF6481 - Fundamentals of Graduate Research in Education (3)

Specialization
39 Total Credits

- Complete all of the following
  - Complete the following:
    - MHS5005 - Introduction to the Counseling Profession (3)
    - MHS6020 - Mental Health Care Systems (3)
    - MHS6070 - Diagnosis and Treatment in Counseling (3)
    - MHS6220 - Individual Psychoeducational Testing I (3)
    - MHS6400 - Theories of Counseling and Personality (3)
    - MHS6401 - Techniques of Counseling (3)
    - MHS6420 - Foundations of Multicultural Counseling (3)
    - MHS6450 - Addictions Counseling (3)
    - MHS6470 - Human Sexuality and Relationships (3)
    - MHS6500 - Group Procedures and Theories in Counseling (3)
    - MHS6702 - Ethical and Legal Issues (3)
    - SDS6347 - Career Development (3)
  - Earn at least 3 credits from the following types of courses:
    Elective approved by adviser.

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      EGC 6971 - Thesis
  - Nonthesis Option
    - Earn at least 6 credits from the following types of courses:
      Two approved electives.

Professional Clinical Experience
12 Total Credits

- Complete all of the following
  - The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients. The practicum is conducted on campus in the UCF Community Counseling and Research Center and the internship is conducted at various clinical sites around central Florida.
  - Earn at least 6 credits from the following:
    - MHS6803 - Practicum in Counselor Education (3)
  - Prerequisites for MHS 6803 - Practicum in Counselor Education are the following: MHS 5005, MHS 6070, MHS 6400, MHS 6401, MHS 6500, and MHS 6702. A minimum of 27 credit hours are required prior to beginning the practicum.
  - Earn at least 6 credits from the following:
    - MHS6830 - Counseling Internship (1 - 6)
  - The prerequisites for MHS 6830 Counseling Internship include MHS 6420 and earning a "B" or better in all sections of MHS 6803.

Grand Total Credits: **63**
Track Details

Additional Program Requirements

- Achieve at least a GPA of 3.0 throughout the degree program.
- Achieve a "B" or better in MHS 5005, MHS 6401, MHS 6803 and MHS 6830.
- Complete a total of 800 hours of clinical experiences, 200 of which will be in the UCF Community Counseling and Research Center and 600 of which are field-based experiences in the community.
- Complete a portfolio and receive approval by Counselor Education faculty.
- Complete a professional exit examination.
- Given the experiential, competency, and performance-based nature of the courses taken by Counselor Education students, students are limited to taking a maximum of three (3) courses per semester. However, if students believe that they can verify a need to take more than three courses, they should consult with their academic adviser for additional guidelines. Students who have not received prior approval and who register for more than three courses per semester will be administratively dropped from any courses over the maximum allowed.

Independent Learning

Practica and internships are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program. The internship experience provides students with the practical experience of providing hands-on services for a variety of clients and presenting concerns. Such services may include, but are not limited to, individual, couple, family, and group counseling with children, adolescents, and adults. Client concerns range from developmental and relational concerns to more severe pathology. All clinical experiences are performed under the direct supervision of an onsite licensed clinician.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Counselor Education MA - Counselor Education MA, School Counseling Track

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Track Website
https://ccie.ucf.edu/cesp/counselored/

Track Handbook
Counselor Education MA - School Counseling Track

2021-2022 Graduate Catalog
**Track Contact Information**

**Stacy Van Horn, PhD**  
Associate Lecturer  
counsel@ucf.edu  
Telephone: 407-823-2401  
ED 322M

**Is this track available 100% online?**

No

**Licensure Disclosure**

The Counselor Education MA, School Counseling program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit [https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Counselor-Ed-School-Counseling-MA.pdf](https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Counselor-Ed-School-Counseling-MA.pdf).

**Track Description**

The CACREP Accredited School Counseling track in the Master of Arts in Counselor Education is designed for the student planning to seek certification as a professional school counselor in pre-K through postsecondary school settings.

The CACREP Accredited School Counseling track in the Counselor Education MA program is designed for students who have a bachelor’s degree in a discipline other than education and plan to seek certification as a professional school counselor in pre-K through postsecondary school settings.

As part of the program’s pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and field-based experiences in the community. The UCF Community Counseling and Research Center serves as a hub for training and research in the program, with graduate students providing counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy. The CCRC serves more than 1400 individuals, couples, and families in the central Florida community.

The Master of Arts in Counselor Education-School Counseling track is a state-approved initial teacher/educator preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in Counselor Education-School Counseling should remain in close contact with their advisor to keep informed of any programmatic changes implemented to comply with new state requirements.

The CACREP accredited School Counseling track in the Counselor Education MA program prepares students for certification as a professional school counselor. As such, students must be formally admitted to the program in order to take any program area courses. The program requires a minimum of 60 credit hours beyond the bachelor’s degree, including 6 credit hours of core courses, 30 credit hours of specialization, 9 credit hours of DOE required certification courses, 9 credit hours of professional clinical experiences, and 6 credit hours of electives in either the nonthesis or thesis option.

**Total Credit Hours Required: 60 Credit Hours Minimum beyond the Bachelor's Degree**

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken in the last five years.
- Three letters of recommendation.
- Résumé.
- Goal statement (see the Program website for additional information about the Goal statement).

The Master’s of Arts in Counselor Education - School Counseling track can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

The College of Community Innovation and Education reserves the right to refuse student entrance or terminate a student after admission to the Counselor Education Program, if in the judgment of the faculty the student demonstrates unacceptable personal fitness to work in the counseling field with children, youth, and/or adults.

A formal interview is required and will be scheduled after the program admission requirements are met. The interview dates are posted on the Counselor Education Program website. Upon admittance, it is required that students attend the program orientation session that occurs on the Thursday before classes begin in the semester to which the student applied.
Graduate Application Deadlines

<table>
<thead>
<tr>
<th>School Counseling</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<td>Domestic Applicants</td>
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<td>International Applicants</td>
<td>Jan 15</td>
<td>Jan 15</td>
<td>-</td>
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</tr>
</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
45 Total Credits

- Core, Specialization, and DOE Certification.

Core
6 Total Credits

- Complete the following:
  - EDF6155 - Lifespan Human Development and Learning (3)
  - EDF6481 - Fundamentals of Graduate Research in Education (3)

Specialization
30 Total Credits

- Complete the following:
  - MHS5005 - Introduction to the Counseling Profession (3)
  - MHS6220 - Individual Psychoeducational Testing I (3)
  - MHS6400 - Theories of Counseling and Personality (3)
  - MHS6401 - Techniques of Counseling (3)
  - MHS6420 - Foundations of Multicultural Counseling (3)
  - MHS6500 - Group Procedures and Theories in Counseling (3)
  - SDS6347 - Career Development (3)
  - SDS6411 - Counseling with Children and Adolescents (3)
  - SDS6620 - Coordination of Comprehensive Professional School Counseling Programs (3)
  - SPS6815 - Legal and Ethical Issues in Professional School Counseling (3)

DOE Certification
9 Total Credits

- Complete the following:
  - EDG6415 - Principles of Instruction and Classroom Management (3)
  - RED5147 - Developmental Reading (3)
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - EGC 6971 - Thesis
  - Nonthesis Option
    - Earn at least 6 credits from the following types of courses:
      - Two approved electives.

Professional Clinical Experience
9 Total Credits

- Complete all of the following
  - The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients and students. The practicum is conducted either on campus in the UCF Community Counseling and Research Center or at one of the CCRC's partner schools in the community. Internship, which is usually completed in one semester (for 6-credit hours) is conducted at various schools around central Florida. The Internship can be divided into two semesters.
  - Complete the following:
    - MHS6803 - Practicum in Counselor Education (3)

- Prerequisites for MHS 6803 - Practicum in Counselor Education are the following: MHS 5005, MHS 6400, MHS 6401, MHS 6500, and SPS 6815. MHS 6420 and SDS 6411 are also pre or co-requisites for MHS 6803. A minimum of 27 credit hours are required prior to beginning the practicum.
  - Earn at least 6 credits from the following:
    - SDS6947 - Internship in Professional School Counseling (1 - 6)
  - The prerequisites for SDS 6947 - Internship in Professional School Counseling include SDS 6620 and earning a "B" or better in MHS 6803.

Grand Total Credits: 60
Track Details

Additional Program Requirements

- Achieve at least a GPA of 3.0 throughout the degree program.
- Achieve a "B" or better in MHS 5005, MHS 6401, MHS 6803 and SDS 6947.
- Complete a total of 700 hours of clinical experiences, 100 of which will be in the UCF Community Counseling and Research Center (or an area school) and 600 of which are field-based experiences in the community.
- Complete a portfolio and receive approval by Counselor Education faculty.
- Complete a professional exit examination.
- Given the experiential, competency, and performance-based nature of the courses taken by Counselor Education students, students are typically limited to taking a maximum of three (3) courses per semester (with some variability for those in the School Counseling track). However, if students believe that they can verify a need to take more than three courses, they should consult with their advisor for additional guidance. Students who have no received prior approval and who register for more than three courses per semester will be administratively dropped from any courses over the maximum allowed.

Independent Learning

Practica and internships are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program. The internship experience provides students with the practical experience of facilitating a comprehensive, professional school counseling program in a school setting (e.g., leading classroom guidance lessons, facilitating group counseling, providing individual counseling services). All clinical experiences are performed under the direct supervision of an onsite certified school counselor.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Crime Analysis Graduate Certificate

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Program Website
https://ccie.ucf.edu/criminaljustice/
Program Contact Information

Eugene Paoline, III PhD
Professor
Eugene.Paoline@ucf.edu
Telephone: 407-823-2603
HS1, RM 321

Elexis Ritz
elexis.ritz@ucf.edu
Telephone: 407-823-6093
HS1 311

Is this program available 100% online?
Yes

UCF Online

Please note: Crime Analysis Graduate Certificate may be completed fully online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters and be part of another degree seeking program. Only 3 of the 9 credit hours may be taken in a completely online format. International applicants should be aware the program may not offer sufficient on-campus courses for F or J visa holders. Please contact the program for more information before enrolling. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Crime Analysis provides students with the essential skills needed by law enforcement agencies to meet the new demands for sophisticated crime analysis and mapping products.

The Graduate Certificate in Crime Analysis provides information for data-driven management, investigative support, and general crime analysis. The certificate addresses the needs of traditional criminal justice graduate students and non-traditional criminal justice practitioners. Theoretical aspects of crime pattern analysis are combined with practical applications to understand the development of data-driven crime prevention strategies. Crime pattern recognition and examination are emphasized.

Students learn to synthesize theory and application in order to produce the knowledge base necessary to fully utilize available technologies to develop and perform complex crime analysis and mapping; perform advanced spatial analyses of crime and understand the essentials of creating customized crime analysis and mapping applications that are agency-specific.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor’s Degree

Application Requirements

Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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<tr>
<th>Crime Analysis Graduate Certificate</th>
<th>*Fall Priority</th>
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2021-2022 Graduate Catalog
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - CCJ6073 - Data Management Systems for Crime Analysis (3)
  - CCJ6079 - Crime Mapping and Analysis in Criminal Justice (3)
  - CCJ6077 - Advanced Crime Mapping and Analysis in Criminal Justice (3)
  - CCJ6717 - CJ Theories of Crime Analysis and Prevention (3)

Grand Total Credits: 12

Program Details

This sequence of courses can only be started in the Fall semester. Contact department for details on semester offerings.

Criminal Justice Executive Graduate Certificate

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Program Website
https://ccie.ucf.edu/criminaljustice/

Program Contact Information

Eugene Paoline, III PhD
Professor
Eugene.Paoline@ucf.edu
Telephone: 407-823-2603
HS1, RM 321

Elexis Ritz
elexis.ritz@ucf.edu
Telephone: 407-823-6093
HS1 311

Is this program available 100% online?
No
Program Description

The Graduate Certificate in Criminal Justice Executive prepares criminal justice professionals for contemporary executive roles within their organizations in the areas of self-awareness, operations, logistics, human capital, vision and current industry trends.

This certificate is designed to develop innovative executives who care about people and results and who are preparing themselves and their agencies for the challenges of tomorrow. This certificate assists executives in developing the competencies and skills to successfully adapt to new and unforeseen realities.

This certificate program is only available to students in the Valencia College Public Safety Leadership Development Certification Program (PSLDCP).

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor’s Degree

Program Prerequisites

This certificate program is only available to students in the Valencia College Public Safety Leadership Development Certification Program (PSLDCP).

Application Requirements

Admission is only open to those with a bachelor's degree from an accredited institution recognized by UCF who are enrolled in the Public Safety Leadership Development Certification Program (PSLDCP) at the Valencia Criminal Justice Institute. An application to the graduate certificate program, official transcripts, and a letter of acceptance to the Valencia College Public Safety Leadership Development Certification Program must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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Graduate School Contact

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gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete the following:
  - CJE6120 - Personnel Management in Criminal Justice Organizations (3)
  - CCJ6489 - Professionalism in Criminal Justice Organizations (3)
  - CCJ5931 - Contemporary Criminal Justice Strategies (3)

Elective Course
3 Total Credits

- Complete at least 1 of the following:
  - CCJ5456 - The Administration of Justice (3)
  - CCJ5931 - Contemporary Criminal Justice Strategies (3)
  - CCJ6118 - Criminal Justice Organizations (3)

Grand Total Credits: **12**
Program Details

*CCJ 5931 can be taken twice in this certificate program as the content of the course changes for each offering.

Criminal Justice MS

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Program Website
https://ccie.ucf.edu/criminaljustice/

Program Handbook
Criminal Justice MS

Program Contact Information

Eugene Paoline, III PhD
Professor
Eugene.Paoline@ucf.edu
Telephone: 407-823-2603
HS1, RM 321

Elexis Ritz
elexis.ritz@ucf.edu
Telephone: 407-823-6093
HS1 311

Is this program available 100% online?
Yes

UCF Online

Please note: Criminal Justice (MS) may be completed fully online, although not all elective options may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

The Master of Science in Criminal Justice is designed to meet the needs of students preparing for careers in the field of criminal justice. The curriculum focuses on the traditional issues such as management, administrative and criminal justice theory, as well as basic research methods and descriptive statistics.

The Master of Science in Criminal Justice core and elective courses focus on the complex and changing world in which criminal justice systems operate in this country and abroad. This plan of study is designed to equip future criminal justice leaders to be critical consumers of criminal justice research.

The benefits of an advanced graduate degree in criminal justice are self-evident and are being increasingly recognized by employers in central Florida and throughout the United States. Federal, state, and local criminal justice agencies benefit from an informed and innovative workforce that is aware of the complex issues and problems faced by the system regardless of geographic locale. Furthermore, graduates of the program are grounded in the latest theories and learn how these theories affect each individual or organization within the system.

This degree has 1 track: Public Administration MPA Dual Degree. Please scroll to the bottom of this page for further details on this Track.

International applicants should be aware the program may not offer sufficient on-campus courses for F or J visa holders. Please contact the program for more information before applying.

The Criminal Justice MS program currently offers limited face-to-face courses. The program is offered primarily online. Contact the program for additional information.

The Master of Science in Criminal Justice requires 36 credit hours, including 21 credit hours of core courses, 6 credit hours of restricted electives, 9 credit hours of general electives, and a final written examination within the Proseminar or capstone course. For students electing to complete a thesis, 6 credit hours of the general elective requirements will be thesis hours.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended with a GPA of at least 3.0 on a 4.0 scale overall or for the last 60 attempted semester hours of credit earned for the degree.
- The GRE is not required for admission to this program.
- Statement of career goals, one or two pages indicating how the Criminal Justice MS degree will enhance the applicant's career goals and expectations of the graduate program.
- Résumé (no longer than two pages).
- Two letters of recommendation. Letters should be from professors or professional references who can attest to the applicant's ability to succeed in graduate coursework and his or her work ethic.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students should be aware that admission to any graduate program is granted on a competitive basis. There may be cases where students meeting minimum requirements are denied admission based on such factors as program capacity or academic discretion. Applicants not meeting the minimum 3.0 GPA standards may be considered as candidates for very limited and competitive "provisional" admissions. However, only students with complete applications (final transcript, résumé, letters of recommendation and statement of career goals) will be reviewed under this special admission category. Competitive GRE scores are encouraged for this admission category.

Graduate Application Deadlines

<table>
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<tr>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

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Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core
18 Total Credits

- Complete the following:
  - CCJ5015 - The Nature of Crime (3)
  - CCJ5456 - The Administration of Justice (3)
  - CCJ6704 - Research Methods in Criminal Justice (3)
  - CCJ6706 - Data Analysis in Criminal Justice I (3)
  - CCJ6106 - Policy Analysis in Criminal Justice (3)
  - CCJ6118 - Criminal Justice Organizations (3)

Capstone
3 Total Credits

- Complete the following:
  - CJE6718 - Proseminar in Criminal Justice (3)

Electives
15 Total Credits

- The combined total of Restricted and Unrestricted 5000 level electives may not exceed 12 credit hours.

Restricted
6 Total Credits

- Complete at least 2 of the following:
  - CJC5020 - Foundations of Corrections (3)
  - CJE5021 - Foundations of Law Enforcement (3)
  - CjJ6020 - The Juvenile Justice System (3)
  - CJL6568 - Law and Social Control (3)
  - CJL6520 - American Criminal Courts (3)

Unrestricted
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  Additional Elective Coursework Students should consult with the Criminal Justice adviser for approval of general electives outside of the Criminal Justice program prior to enrolling. Criminal Justice courses at the 5000 or 6000 level, not used toward core or restricted electives, are pre-approved general electives.

Grand Total Credits: 36
Program Details

Students must achieve a grade of "B" (3.0) or higher in every course listed under core requirements and in the capstone course CJE 6718.

Thesis Option: 6 Credit Hours of the general elective requirements may be thesis hours

All MSCJ students are automatically placed into the nonthesis option. Students electing to complete a thesis should consult the program adviser. The thesis option will consist of 6 hours of thesis credit and a successful defense of the research. Students should select a faculty adviser, form a thesis committee, and complete core/restricted elective requirements before enrolling in thesis hours. A thesis proposal must also be submitted to an approved committee before enrolling thesis hours. Students who elect to write a thesis should become familiar with the university’s requirements and deadlines for organizing and submitting the thesis.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Tangible projects such as advanced research projects, scholarly papers, internships, practicum, and presentations at professional conferences also contribute to the self development of our students. The culminating experience for students is completion of the CJE 6718 - Proseminar in Criminal Justice, which serves as the capstone for the program.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Criminal Justice MS - Criminal Justice MS, Public Administration MPA Dual Degree Track

College

College of Community Innovation and Education

Department

Department of Criminal Justice

Track Website

https://ccie.ucf.edu/criminaljustice/

Track Handbook

Criminal Justice MS, Public Administration MPA Dual Degree Track
Track Contact Information

Eugene Paoline, III PhD
Professor
Eugene.Paoline@ucf.edu
Telephone: 407-823-2603
HS1, RM 321

Elexis Ritz
elexis.ritz@ucf.edu
Telephone: 407-823-6093
HS1 311

Is this track available 100% online?
Yes

UCF Online

Please note: The Public Administration / Criminal Justice (MS) may be completed fully online, although not all course options may be offered online every semester. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit www.international.ucf.edu. If you have questions, please consult International Affairs and Global Strategies at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Track Description

The Public Administration MPA - Criminal Justice MS Dual Degree Track provides the opportunity for students to earn graduate degrees from two academic programs, the Master of Public Administration and the Master of Science in Criminal Justice, concurrently.

Students successfully completing this MPA/MS dual degree program will have the skills and analytical techniques for successful careers in both public administration and criminal justice. After successful completion of the MPA/MS dual degree program, students will receive two diplomas, one for the Public Administration MPA and one for the Criminal Justice MS.

The dual degree track (Master of Criminal Justice / Master of Public Administration) consists of 51 credit hours. Each student completes a core of 11 courses (33 credit hours), two research methods and statistics courses (6 credit hours), two electives (6 credit hours), and a capstone experience of two courses (6 credit hours).

Total Credit Hours Required: 51 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended with a GPA of at least 3.0 on a 4.0 scale overall or for the last 60 attempted semester hours of credit earned for the degree.
- The GRE is not required for admission to this program.
- Three letters of recommendation specifically for the Criminal Justice MS/MPA program evaluating scholarly and professional capacity. Letters from professors from the colleges/universities attended are preferred, but if that is not feasible, letters from current or past supervisors will be accepted. The recommender must address the applicant's work ethic and ability to succeed at graduate-level academic work.
- Current professional résumé including public service experience (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double spaced (500-800 words) and should address the following:
  - Personal background and career aspirations in public service.
  - Reason for pursuing graduate study in criminal justice and public administration, including future career goals and plans.
  - Specific areas of public administration and criminal justice that interests you.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All international students must meet university minimum TOEFL score requirements regardless of language in which the undergraduate program was completed.

Admission to this degree is competitive; applicants meeting the minimum university and/or program application requirements are not guaranteed admission to the program.

All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Public Administration MPA Dual Degree</th>
<th>*Fall Priority</th>
<th>Fall</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
39 Total Credits

Details

Core
33 Total Credits

- Complete the following:
  - CCJ5015 - The Nature of Crime (3)
  - CCJ5456 - The Administration of Justice (3)
  - CCJ6106 - Policy Analysis in Criminal Justice (3)
  - CCJ6118 - Criminal Justice Organizations (3)
  - PAD6035 - Public Administration in the Policy Process (3)
  - PAD6037 - Public Organization Management (3)
  - PAD6053 - Public Administrators in the Governance Process (3)
  - PAD6207 - Public Financial Management (3)
  - PAD6227 - Public Budgeting (3)
  - PAD6335 - Strategic Planning and Management (3)
  - PAD6417 - Human Resource Management (3)

Research Methods/Statistics
6 Total Credits

- Complete 1 of the following
  Option 1
    - Complete the following:
      - PAD6700 - Research Methods in Public Administration (3)
      - CCJ6706 - Data Analysis in Criminal Justice I (3)
  Option 2
    - Complete the following:
      - CCJ6704 - Research Methods in Criminal Justice (3)
      - PAD6701 - Analytical Techniques for Public Administration (3)

Capstone
6 Total Credits

- Complete the following:
  - PAD6062 - Advanced Concepts and Applications in Public Administration (3)
  - CJE6718 - Proseminar in Criminal Justice (3)

Electives
6 Total Credits

- Complete at least 2 of the following:
  - CJC5020 - Foundations of Corrections (3)
  - CJE5021 - Foundations of Law Enforcement (3)
  - CJ6020 - The Juvenile Justice System (3)
  - CJL6568 - Law and Social Control (3)
  - CJL6520 - American Criminal Courts (3)

Grand Total Credits: 51

Track Details

Additional Program Requirements

Students must achieve a grade of "B" or higher in every CCJ/CJE course and a grade of "B-" or higher in every PAD course in the core courses, research methods/statistics courses, and the Capstone courses. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Independent Learning

Independent learning is demonstrated throughout the curriculum, through the process of inquiry and dialogue. Tangible projects, such as scholarly research, papers, internships, and the capstone experience also contribute to the self-development of students. The capstone courses, PAD 6062 and CJE 6718, provide the independent learning experience.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Criminal Justice PhD

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Program Website
https://ccie.ucf.edu/criminaljustice/

Program Handbook
Criminal Justice PhD

Program Contact Information

Eugene Paoline, III PhD
Professor
Eugene.Paoline@ucf.edu
Telephone: 407-823-2603
HS1, RM 321

Elexis Ritz
elexis.ritz@ucf.edu
Telephone: 407-823-6093
HS1 311

Is this program available 100% online?
No
Program Description

The Doctoral Program in Criminal Justice is a post-master's program of study and research. The program is composed of a substantive core focused on criminal justice theory and institutions, a research methods core that prepares social scientists in the scientific method and social-science statistics, and a selection of substantive criminal justice concentrations (policing, corrections, and juvenile justice).

The program focuses on criminal justice and takes advantage of the city of Orlando and surrounding cities and counties to examine criminal justice issues from multiple angles and levels.

The program is intended to serve many purposes. Chief among them are:

- Prepare disciplinary stewards capable of advancing scholarship in criminal justice;
- Prepare a qualified workforce to assume criminal justice instructional responsibilities in postsecondary institutions;
- Prepare analysts competent to staff federal, state, and local criminal justice agencies; and
- Improve safety and justice in communities through research partnerships with neighborhood, city, county and state agencies and associations.

Students completing the program will be well prepared to pursue academic positions in universities, research positions in criminal justice agencies, and consultancies in program evaluation and needs assessment.

The Doctoral Program in Criminal Justice is a 57-credit-hour, post-master's program of study and research. Substantive emphasis is placed on core coursework in criminal justice theory and institutions, and on in-depth concentrations in policing, corrections or juvenile justice. Students complete a minimum of 42 credit hours of doctoral coursework and 15 credit hours of dissertation research.

Total Credit Hours Required: 57 Credit Hours Minimum beyond the Master's Degree

Program Prerequisites

Applicants are expected to have a master's degree in criminal justice or a closely related discipline. Applicants' transcripts will be reviewed for successful completion of a sufficient number of fundamental criminal justice classes. Applicants may be required to complete master's-level courses in certain topics before being admitted to the program or permitted to take classes.

Students must have completed master's-level courses in advanced research methods and advanced quantitative methods and be familiar with SPSS, SAS, STATA, or R prior to enrolling in the Methodological Core courses. Students who do not meet this requirement may be required to complete remedial coursework prior to enrolling in CCJ 7708 - Advanced Quantitative Methods for Criminal Justice Research and CCJ 7727 - Advanced Research Methods in Criminal Justice. It is recommended students have completed master's level courses in the concentration area they choose prior to taking courses in that area (policing, corrections, or juvenile justice).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- An earned Master's degree in criminal justice or a closely related discipline from an accredited institution.
- Official, competitive GRE score taken within the last five years.
- Three letters of reference from faculty or professionals who can assess the student's ability to succeed in a doctoral program. A minimum of two letters must be from university faculty members, at least one of which must be written by a faculty member from the institution/program from which the Master's degree was earned, preferably a thesis advisor or close mentor who has the capacity to directly assess the applicant's potential for PhD-level work.
- A personal narrative of 500 - 1,000 words describing research interests, educational expectations, career aspirations, level of computer skills, and any special qualifications that may enhance the overall learning environment of the CJ PhD program.
- A curriculum vita.
- A writing sample that is at least 2,000 words long, is academic in nature (e.g., paper written for a Master's class), and demonstrates the applicant's ability to complete graduate-level composition. Should not be an article accepted for publication and applicant must be sole author.

Applicants may be requested to participate in an interview (in person, by Skype, or by phone) with the Department's Doctoral Program Committee.

Admission to the Criminal Justice doctoral program will be granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match to the program, ability to enhance program strength and diversity, and potential for completing the degree and making significant contributions to criminal justice.

All application materials must be submitted by the appropriate deadline listed below.

2021-2022 Graduate Catalog
Graduate Application Deadlines

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Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
36 Total Credits

- A grade of B (3.0) or better is required for all courses listed in the Substantive Core and Methodological Core.

Substantive Core
15 Total Credits

- Complete the following:
  - CCJ7019 - Seminar in the Nature of Crime (3)
  - CCJ7457 - Seminar in Criminal Justice Theory (3)
  - CCJ7096 - Seminar in Criminal Justice Systems (3)
  - CCJ7785 - Teaching Criminal Justice (3)
  - CCJ7775 - Criminal Justice Research in the Community (3)

Methodological Core
12 Total Credits

- Complete all of the following
  - CCJ7727 - Advanced Research Methods in Criminal Justice (3)
  - CCJ7708 - Advanced Quantitative Methods for Criminal Justice Research (3)

- Select two courses from the list below or another methodological course with adviser approval: Students selecting CCJ 7725 must complete CCJ 6073

- Complete at least 2 of the following:
  - CCJ7725 - The Geography of Crime: Theory and Methods (3)
  - CCJ6073 - Data Management Systems for Crime Analysis (3)
  - CCJ6079 - Crime Mapping and Analysis in Criminal Justice (3)
  - CCJ7747 - Hierarchical Linear Modeling in Criminal Justice Research (3)
  - CCJ7752 - Structural Equation Modeling in Criminal Justice Research (3)
  - CCJ6902 - Qualitative Criminal Justice Research Methods (3)

Concentration Area
9 Total Credits

- Complete 1 of the following
  - Students select an area of concentration and complete the assigned 9 credit hours of coursework. It is recommended...
entering doctoral students have completed a master's-level precursor in their chosen area (e.g., master's-level survey course in policing if the area chosen is Policing Theory and Research). A grade of B (3.0) or better is required for all courses listed in the selected concentration area. Areas of concentration are:

- **Policing Theory and Research**
  - Complete the following:
    - CJE6320 - Seminar in Police Administration (3)
    - CJE6456 - Seminar in Policing Urban Communities (3)
    - CJE6706 - Seminar in Police Socialization and Culture (3)

- **Correctional Theory and Research**
  - Complete the following:
    - CJC6135 - Seminar in Institutional Corrections (3)
    - CJC6165 - Seminar in Community Corrections (3)
    - CJC6486 - Seminar in Correctional Effectiveness (3)

- **Juvenile Justice Theory and Research**
  - Complete the following:
    - CJ6124 - Seminar in Prosecuting Juvenile Offenders (3)
    - CJ6126 - Seminar in Juvenile Corrections (3)
    - CJ6546 - Seminar in Policing and Prevention in the Juvenile Justice System (3)

**Elective Courses**

- Earn at least 6 credits from the following types of courses:
  - Students select two additional courses (3 credit hours each) in consultation with program adviser and mentor.

**Examinations**

- Students must successfully complete a series of cumulative examinations to ensure expertise in the substantive, methodological and concentration areas. Students will take an exam on the core criminal justice coursework, a research methods and statistics proficiency exam, and an exam in the student's concentration area. Students may enroll in doctoral research (CCJ 7919) during the period of study preceding the examinations if all coursework is complete. Students will be given two attempts at each exam. If unsuccessful on the second attempt the student will be dismissed from the program.

**Dissertation**

- Earn at least 15 credits from the following types of courses:
  - CCJ 7980 Upon successful completion of all examinations, students will enter candidacy and complete a dissertation. The dissertation topic should be grounded in the student's selected concentration area. Dissertation committees will contain a minimum of four faculty members, at least three of which (including the chair) will be from the Department of Criminal Justice. The fourth member must be from outside the Department of Criminal Justice and may be from outside the university. All dissertation committee members must be approved graduate faculty or graduate faculty scholars.

**Grand Total Credits: 57**

**Financial Information**

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- http://finaid.ucf.edu

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Curriculum and Instruction EdD

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Program Website
https://ccie.ucf.edu/lser/curriculum-and-instruction/

Program Handbook
Curriculum and Instruction EdD

Program Contact Information
Michele Gill PhD
Professor
eddcurriculum@ucf.edu
Telephone: 407-823-1771
ED 222R

Is this program available 100% online?
No

Program Description
The Curriculum and Instruction EdD program is intended for individuals engaged in the practice of education in various settings, including schools, colleges, universities, businesses and industry. The program prepares students for engaging in the study of practice-based problems in education and data-driven decision-making to generate real-world solutions.

The Curriculum and Instruction EdD program is designed for experienced practicing educators and practitioners who wish to gain advanced skills in:

1. Evaluating the effectiveness of educational and clinical programs and identifying impediments to effective practice and program improvement;
2. Analyzing and synthesizing educational and clinical research and scholarship to identify research-based practices and solutions to complex problems of the practice;
3. Leading the change process through the implementation of data and evidence-based decisions and solutions.

The Doctor of Education program culminates with the Dissertation in Practice.

The Doctor of Education (EdD) program is a professional practice doctorate. It is problem-based and designed for practitioners who aspire to positions of influence through their engagement in the development of others. The program builds that expertise from a core of courses in learning, development, and motivation; data, accountability, and leadership; organizational contexts and the use of research to drive decision-making. Students will work with a team of faculty and field advisers who will support their specialization area.

This program is intended for professionals interested in teaching in a college, university, or community college, or leading instructional, training, and/or program improvement in a school or school district, higher education organization, social service agencies, military, or industry settings.

The EdD in Curriculum and Instruction consists of three distinct program areas, all with an emphasis on professional practice: core, specialization, and dissertation. Three milestones assess students' progress through the program.

Total Credit Hours Required: 54 - 57 Credit Hours Minimum beyond the Master's Degree

Program Prerequisites
Master's degree in a closely related field.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements applicants to this program must provide:

- **Official transcript** - One official transcript (in a sealed envelope) from each college/university attended.
- **Master's degree in a closely related field.**
- **Graduate Record Examination scores and transcripts** - Official, competitive GRE score taken within the last five years.
- **The goal statement** - The goal statement is a critical element of your application materials to the EdD program. It should convey the applicant's intended Area of Specialization (see below), professional experience, and professional goals after completing the program. The admissions committee will review the goal statement to determine whether the EdD program is the right match for the applicant. In addition, as a sample of the applicant's writing ability, the goal statement should be clear and concise.
- **Area of Specialization** - The applicant will be asked to indicate a preferred Area of Specialization in the Goal Statement. Areas of Specialization may be found here. Applicants are required to meet or speak with the Specialization Area Advisor about their interests prior to applying. Please contact the Program Coordinator to discuss options for Areas of Specialization not included in our current program offerings.
- **Resume** - The applicant should include his/her most recent professional resume or curriculum vitae. The EdD in Curriculum and Instruction is a doctorate in the professional practice of education and, as such, emphasizes a minimum of three (3) years of experience in the field.
- **Three letters of reference** - Three letters of reference will be read by the admissions committee to determine whether the applicant has the academic ability to succeed in the program. As such, these letters should be written by graduate faculty who can judge the applicant's abilities in a doctoral program, including their research and writing skills. One of the letters may be from the applicant's employer/supervisor. This letter will support the applicant's professional experience and commitment to the program.
- **Interview** - The applicant should make an appointment to meet with the specialization area adviser before the final admission deadline. These appointments may be conducted in person or via remote conferencing. The interview is an important way for faculty to attach faces to names and draw distinctions among applicants. Students in the EdD in Curriculum and Instruction program will spend three full years working closely with faculty and colleagues in both individual and group settings. The interview allows faculty to meet potential students to form a cohesive and dynamic cohort.

Graduate Application Deadlines

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Degree Requirements

Required Courses  
33 Total Credits

- Details
18 Total Credits

- Complete all of the following
  - The Core courses include courses on learning theory, organizational theory, and research courses designed to teach students how to identify, analyze and evaluate complex problems of practice.
  - Complete the following:
    - EDP7517 - Facilitating Learning, Development and Motivation (3)
    - EDF7457 - Data, Assessment, and Accountability (3)
    - EDA7101 - Organizational Theory in Education (3)
    - EDF7494 - Identifying Complex Problems of Practice (3)
    - EDF7478 - Analysis of Data for Complex Problems of Practice (3)
    - EDG7985 - Proposing and Implementing Data-Driven Decisions (3)

Area of Specialization(s)
15 Total Credits

- Complete all of the following
  - Earn at least 12 credits from the following types of courses:
    - The area of specialization is comprised of a minimum of 12 credit hours of specialization courses and 3 credit hours of a Laboratory of Practice. However, students choosing to complete an eligible graduate certificate with their chosen specialization may be required to complete an additional 3 hours to meet certificate requirements. Students must select an area of specialization before being admitted to the program. Each specialization area has its own advisor, so that students have someone to guide their doctoral studies. The specialization courses are designed to enhance the student's professional practice by extending the knowledge base earned through the master's degree and work experience. Specialization areas are subject to the discretion of the College based on course and faculty availability. Applicants are advised to review the various specializations offered on the CIEDD website (https://ccie.ucf.edu/wp-content/uploads/sites/12/2018/07/EDD-Student-Handbook.pdf). Examples of concentration areas are provided below in the "Program Details" Section; however, these are only examples and do not represent specific requirements. Students should be aware that not every specialization course is offered every semester and concessions will need to be considered based on the availability of coursework, faculty, course prerequisites, and other institutional factors
  - Complete the following:
    - EDG7947 - Laboratory of Practice (3)
  - Students must complete a 3-credit-hour Laboratory of Practice experience. The Laboratory of Practice is a field-based experience where students begin the research process. This is not a "work for credit" experience; instead, it places the student in a professional setting to gain practical leadership and research experience.

Restricted Research Elective
3 Total Credits

- Upon completion of the core research continuum courses, students, with the guidance of their dissertation chairs, will select a fourth research course that will best support their dissertation research. Options include ONE of the following courses:

3 Total Credits

- Complete at least 1 of the following:
  - EDG6285 - Evaluation of School Programs (3)
  - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
  - EDF7403 - Quantitative Foundations of Educational Research (3)
  - EDF7475 - Qualitative Research in Education (3)

Program Milestones
0 Total Credits

- Program milestones are observable demonstrations of competency administered in place of comprehensive exams. Milestones are designed to monitor student progress and clear the student for continuation to the next program level. There are three program milestones, beginning in Year 2 of the program. Successful completion of all three is one of the requirements for candidacy. To enter EDG 7987 - Dissertation in Practice, students must have an overall 3.0 GPA on all graduate work in the program, complete a mandatory 0 credit summer webcourse, and successfully complete the three required program milestones.

Dissertation in Practice
18 Total Credits

- Earn at least 18 credits from the following types of courses:
  - EDG 7987 - Dissertation in Practice The dissertation in practice is the culmination of coursework and field experience related to complex problems of educational practice. The dissertation is the final demonstration of competency in the Curriculum and Instruction EdD. It is a rigorous academic project and is expected to demonstrate the skills and knowledge the student has acquired throughout the program as applied in an authentic professional environment. The dissertation is completed in partnership with the student, university faculty, and the student's mentor/client. The dissertation in practice is presented in a thorough and comprehensive written report and must address a complex problem of educational practice. The dissertation in practice will be evaluated on the thoroughness, applicability and appropriateness of the work.

Grand Total Credits: 54
Program Details

Examples of concentration areas are provided below; however, these are only examples and do not represent specific requirements. Students should be aware that not every specialization course is offered every semester and concessions will need to be considered based on the availability of coursework, faculty, course prerequisites, and other institutional factors.

Example I: Curriculum and Instruction

The Curriculum and Instruction option provides students with a broad understanding of the factors affecting education and approaches to addressing systemic problems. For example, a student interested in curriculum design and development and contemporary instructional practice may select the following specialization to include:

- EDG 7692 Issues in Curriculum 3 Credit Hours
- EDG 7221 - Advanced Curriculum Theory 3 Credit Hours
- EDF 7232 Analysis of Learning Theories in Instruction 3 Credit Hours
- EDG 7325 - Models of Teaching and Instructional Theory 3 Credit Hours

Example II: Instructional Design and Technology

- EME 6055 - Current Trends in Instructional Technology 3 Credit Hours
- EME 6507 - Multimedia for Education and Training 3 Credit Hours
- EME 6417 - Interactive Online and Virtual Teaching Environments 3 Credit Hours
- EME 6458 - Virtual Teaching and the Digital Educator 3 Credit Hours

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Curriculum and Instruction MEd

College

College of Community Innovation and Education

Department

School of Teacher Education

Program Website

https://ccie.ucf.edu/lser/curriculum-and-instruction/

Program Contact Information

Graduate Affairs Office
cciegrad@ucf.edu
Telephone: 407-823-5369
ED 115

Is this program available 100% online?

No
Program Description

****This program has temporarily suspended admissions effective Summer 2021***

The Master of Education (MEd) program in Curriculum and Instruction is designed for professionally certified and experienced educators who want to extend their influence beyond the walls of the classroom and improve their knowledge and skills in the area of leadership. Students also engage in the development of expertise in leading other educators in curriculum and instructional improvement across subject areas and grade levels.

This degree does not prepare students for initial, administrative, or supervisory certification.

The Curriculum and Instruction program addresses teacher empowerment and leadership in the expanded roles and responsibilities of educators in schools, including data-driven assessment for school improvement, professional learning communities, applying research to practice, improving instruction and student learning outcomes, and collaboration with families and communities.

During the admission process, students will select a track in the following content areas that do not require specific certification beyond the professional teaching certificate: Curriculum Leadership, Educational Technology*, Gifted Education*, Global, International and Comparative Education*, Intervention Specialist, and Supporting High Needs Populations. Please scroll to the bottom of this page for further details on these Tracks.

*These program areas also include a certificate, which must be applied for separately.

The Master of Education in Curriculum and Instruction program requires a minimum of 30 credit hours beyond the bachelor's degree; minimum credit hour requirements vary by track. Students from all tracks must complete the required 15-18 credit hours of core courses. The Master of Education in Curriculum and Instruction requires, depending on the track, that all students complete a Thesis (6 credit hours) or Capstone Research Project (3 credit hours). The Capstone is a course-based action research study (i.e., application and analysis of the effectiveness of research-based best practices in the classroom). Additional course requirements vary by track.

Total Credit Hours Required: 30-39 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Application Deadlines Notes

****This program has temporarily suspended admissions effective Summer 2021***

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

2021-2022 Graduate Catalog
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Curriculum and Instruction MEd - Curriculum and Instruction MEd, Art Education Track

College
College of Community Innovation and Education

Department
School of Teacher Education

Track Website
https://ccie.ucf.edu/lser/curriculum-and-instruction/

Track Contact Information
Debra McGann EdD
Lecturer
debra.mcgann@ucf.edu
ED 122C

Is this track available 100% online?
No

Track Description

This program has temporarily suspended admissions effective Summer 2021.

You can however, get a MAT in Art Education: please follow this link: MAT - Art Education.

The MEd degree is designed to meet the expanding needs of the art teacher. Students in the program examine contemporary problems in art education, review recent curriculum developments, study innovations in art education, explore interdisciplinary concepts, and become involved in research problems specific to the art teacher. This degree requires previous certification in art.

The Art Education track in the Curriculum and Instruction MEd program requires 15 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 21 credit hours of specialization courses.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines Notes

This program has temporarily suspended admissions effective Summer 2021.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core (See Program Details Below)
15 Total Credits

- Complete the following:
  - EDG6935 - Introductory Seminar in Teacher Leadership (3)
  - EDG6223 - Curriculum Theory, Organization, and Policy (3)
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)
  - EDF6233 - Introduction to Action Research and Analysis of Classroom Practice (3)
  - EDF6635 - Capstone: Action Research in Teacher Leadership (3)

Specialization
21 Total Credits

- Complete all of the following
  - Complete the following:
    - ARE6450 - K-12 Instructional Materials (3)
    - ARE6666 - Arts Advocacy (3)
    - ARE6748 - Advanced Research Seminar in Art Education (3)
    - ARE6747 - Assessment Seminar in Art Education (3)
    - ARE6905 - Research Trends in Art Education (3)
- Complete at least 2 of the following:
  - ARE5251 - Art for Exceptionalities (3)
  - ARE5454 - Studio Experiences in Art Education (3)
  - ARE6195 - Teaching Art Appreciation with Interdisciplinary Strategies (3)
  - ARE6748 - Advanced Research Seminar in Art Education (3)
  - ARE6905 - Research Trends in Art Education (3)
  - ART studio courses approved by adviser may also be taken.

Grand Total Credits: 36

Track Details

Core: 15 Credit Hours

* Must be taken in first semester in the program.

**Prerequisites to the Capstone.

Students complete a Capstone Action Research Project EDF 6635 at the end of the program. Students must complete an Intent to Graduate form the semester prior to enrolling in EDF 6635.

- EDG 6935 - Introductory Seminar in Teacher Leadership 3 Credit Hours *
- EDG 6223 - Curriculum Theory, Organization, and Policy 3 Credit Hours
- EDF 6472 - Data-Driven Decision-Making for Instruction 3 Credit Hours **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice 3 Credit Hours **
- EDF 6635 - Capstone: Action Research in Teacher Leadership 3 Credit Hours
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Curriculum and Instruction MEd - Curriculum and Instruction MEd, Curriculum Leadership Track

College
College of Community Innovation and Education

Department
School of Teacher Education

Track Website
https://ccie.ucf.edu/lser/curriculum-and-instruction/

Track Contact Information

David Boote PhD
David.Boote@ucf.edu
Telephone: 407-823-4160
ED 222P

Is this track available 100% online?
No

Track Description

****This program has temporarily suspended admissions effective Summer 2021****
The Curriculum Leadership track in the Curriculum and Instruction MEd program is designed to meet the advanced knowledge and skill needs of educators in curriculum planning and management.

The Curriculum and Leadership track in the Master of Education (MEd) Curriculum and Instruction program requires 15 credit hours of core courses, including completion of a capstone research project (3 credit hours). In addition, students take 18 credit hours of specialization courses.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines Notes

****This program has temporarily suspended admissions effective Summer 2021***

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core (See Program Details Below)
15 Total Credits

- Complete the following:
  - EDG6935 - Introductory Seminar in Teacher Leadership (3)
  - EDG6223 - Curriculum Theory, Organization, and Policy (3)
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)
  - EDF6233 - Introduction to Action Research and Analysis of Classroom Practice (3)
  - EDF6635 - Capstone: Action Research in Teacher Leadership (3)

Specialization
18 Total Credits

- Complete all of the following
  - Complete the following:
    - ESE6217 - Curriculum Design (3)
    - ESE6416 - Curriculum Evaluation (3)
    - EGI6245 - Curriculum and Instruction for Teaching Advanced, Gifted, and Talented Learners (3)
    - EDF6259 - Learning Theories Applied to Leadership in Teaching Practice (3)
  - Complete at least 2 of the following:
    - EDF6517 - Perspectives on Education (3)
    - EME5050 - Fundamentals of Technology for Educators (3)
    - EME6602 - Integration of Technology into the Learning Environments (3)
    - EDF6886 - Multicultural Education (3)
  - Other electives as approved by adviser and program coordinator (up to 6 credit hours)

Grand Total Credits: 33
Track Details

Core: 15 Credit Hours

* Must be taken in first semester in the program.

**Prerequisites to the Capstone.

Students complete a Capstone Research Project (EDF 6635) at the end of the program. Students must complete an Intent to Graduate form the semester prior to enrolling in EDF 6635.

- EDG 6935 - Introductory Seminar in Teacher Leadership 3 Credit Hours *
- EDG 6223 - Curriculum Theory, Organization, and Policy 3 Credit Hours
- EDF 6472 - Data-Driven Decision-Making for Instruction 3 Credit Hours **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice 3 Credit Hours **
- EDF 6635 - Capstone: Action Research in Teacher Leadership 3 Credit Hours

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

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Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Curriculum and Instruction MEd - Curriculum and Instruction MEd, Educational Technology Track

College

College of Community Innovation and Education

Department

School of Teacher Education

Track Website

https://ccie.ucf.edu/ser/curriculum-and-instruction/

Track Contact Information

Glenda Gunter PhD
Associate Professor
glenda.gunter@ucf.edu
ED 322P

Is this track available 100% online?

No
Track Description

***This program has temporarily suspended admissions effective Summer 2021***

The Educational Technology track in the Curriculum and Instruction MEd program is designed for certified and experienced educators who want to increase their technological skills and become highly skilled at successfully integrating technology into the curriculum as well as develop leadership skills necessary to become site-based technology coordinators in K-12 schools, colleges and universities.

The Educational Technology track in the Master of Education (MEd) in Curriculum and Instruction program requires 15 credit hours of core courses, including completion of a capstone research project (3 credit hours). In addition, students take 15 credit hours of specialization courses.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines Notes

***This program has temporarily suspended admissions effective Summer 2021***

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core (See Program Details Below)
15 Total Credits

- Complete the following:
  - EDG6935 - Introductory Seminar in Teacher Leadership (3)
  - EDG6223 - Curriculum Theory, Organization, and Policy (3)
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)
  - EDF6233 - Introduction to Action Research and Analysis of Classroom Practice (3)
  - EDF6635 - Capstone: Action Research in Teacher Leadership (3)

Specialization
15 Total Credits

- Complete all of the following
  - Complete the following:
    - EME6405 - Adapting and Integrating Innovative Technologies in Education (3)
    - EME6507 - Multimedia for Education and Training (3)
    - EME6602 - Integration of Technology into the Learning Environments (3)
    - EME6053 - Teaching and Learning with Emerging Technologies (3)
  - Complete at least 1 of the following:
    - EME6055 - Current Trends in Instructional Technology (3)
    - EME6062 - Research in Instructional Technology (3)
    - EME6613 - Instructional System Design (3)
    - EME6417 - Interactive Online and Virtual Teaching Environments (3)
    - EME6458 - Virtual Teaching and the Digital Educator (3)
    - EME6457 - Distance Education: Technology Process Product (3)

Grand Total Credits: 30

Track Details

Core: 15 Credit Hours

* Must be taken in first semester in the program.
**Prerequisites to the Capstone.

Students complete a Capstone Action Research Project EDF 6635 at the end of the program. Students must complete an Intent to Graduate form the semester prior to enrolling in EDF 6635.

- EDG 6935 - Introductory Seminar in Teacher Leadership 3 Credit Hours *
- EDG 6223 - Curriculum Theory, Organization, and Policy 3 Credit Hours
- EDF 6472 - Data-Driven Decision-Making for Instruction 3 Credit Hours **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice 3 Credit Hours **
- EDF 6635 - Capstone: Action Research in Teacher Leadership 3 Credit Hours

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Curriculum and Instruction MEd - Curriculum and Instruction MEd, Gifted Education Track

College
College of Community Innovation and Education

Track Website
https://ccie.ucf.edu/ser/curriculum-and-instruction/

Track Contact Information
Gillian Eriksson PhD
Gillian.Eriksson@ucf.edu
Telephone: 407-823-6493
Education 223M

Is this track available 100% online?
No

Licensure Disclosure
This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Curriculum-Instruction-Gifted-Ed-MEd.pdf.

Track Description

***This program has temporarily suspended admissions effective Summer 2021***
The Gifted Education track in the Curriculum and Instruction MEd program is designed to meet the advanced knowledge and skill needs of educators who teach diverse gifted and talented students.

The Gifted Education track in the Master of Education (MEd) in Curriculum and Instruction program requires 15-18 credit hours of core courses, including completion of a capstone research project or the thesis option. In addition, students take 18 credit hours of specialization courses.

Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines Notes

***This program has temporarily suspended admissions effective Summer 2021***
Graduate School Contact
Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements
Core (See Program Details Below)
12 Total Credits
- Complete the following:
  - EDG6935 - Introductory Seminar in Teacher Leadership (3)
  - EDG6223 - Curriculum Theory, Organization, and Policy (3)
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)
  - EDF6233 - Introduction to Action Research and Analysis of Classroom Practice (3)

Specialization
18 Total Credits
- Complete the following:
  - EGI6051 - Understanding the Gifted/Talented Student (3)
  - EGI6245 - Curriculum and Instruction for Teaching Advanced, Gifted, and Talented Learners (3)
  - EGI6246 - Education of Special Populations of Gifted Students (3)
  - EGI6247 - Developing Advanced Programs and Services: Acceleration and Enrichment for Academically and Intellectually Gifted Learners (3)
  - EGI6417 - Guidance and Counseling Strategies for Teachers of Gifted and Talented Individuals (3)
  - EGI6305 - Theory and Development of Creativity (3)

Thesis/Capstone Option
3 - 6 Total Credits
- Complete 1 of the following
  - Thesis
    - Earn at least 6 credits from the following types of courses:
      - IDS 6971 - Thesis Option Student must complete an Intent to Graduate form the semester prior to enrolling in IDS 6971 or EDF 6635.
  - Capstone
    - Complete all of the following:
      - Complete the following:
        - EDF6635 - Capstone: Action Research in Teacher Leadership (3)
        - Student must complete an Intent to Graduate form the semester prior to enrolling in IDS 6971 or EDF 6635.

Grand Total Credits: **33 - 36**
**Track Details**

* Should be taken in first semester in the program, if possible.

** Prerequisites for enrolling in the Thesis Option (IDS 6971) or Capstone (EDF 6635). Students complete a Thesis Option (6 credit hours) or a Capstone Research Project (3 credit hours) at the end of the program. Student must complete an Intent to Graduate form the semester prior to enrolling in IDS 6971 or EDF 6635.

- EDG 6935 - Introductory Seminar in Teacher Leadership 3 Credit Hours *
- EDG 6223 - Curriculum Theory, Organization, and Policy 3 Credit Hours
- EDF 6472 - Data-Driven Decision-Making for Instruction 3 Credit Hours **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice 3 Credit Hours **

**Independent Learning**

The MEd requires a course-based action research study and completion of a capstone experience.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu
http://finaid.ucf.edu

**Fellowship Information**

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**Grad Fellowships**

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

**Curriculum and Instruction MEd - Curriculum and Instruction MEd, Global, International and Comparative Education Track**

**College**

College of Community Innovation and Education

**Department**

School of Teacher Education

**Track Website**

https://ccie.ucf.edu/lser/curriculum-and-instruction/

**Track Contact Information**

Karen Biraimah PhD
karen.biraimah@ucf.edu
Telephone: 407-823-2428
ED 320H

**Is this track available 100% online?**

No
Track Description

***This program has temporarily suspended admissions effective Summer 2021***

The Global, International and Comparative Education track in the Curriculum and Instruction MEd is designed for educators who wish to expand their knowledge and skill in international and cross-cultural education setting.

The Global, International and Comparative Education track in the Master of Education (MEd) in Curriculum and Instruction program requires 15 credit hours of core courses, including completion of a capstone research project (3 credit hours). In addition, students take 21 credit hours of specialization courses.

Total Credit Hours Required: 36-39 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines Notes

***This program has temporarily suspended admissions effective Summer 2021***

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core (See Program Details Below)
12 Total Credits

- Complete the following:
  - EDG6935 - Introductory Seminar in Teacher Leadership (3)
  - EDG6223 - Curriculum Theory, Organization, and Policy (3)
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)
  - EDF6233 - Introduction to Action Research and Analysis of Classroom Practice (3)

Specialization
21 Total Credits

- Complete all of the following
  - Complete the following:
    - EDF6809 - Introduction to Comparative and International Education (3)
    - SSE5391 - Global Education: Theory and Practice (3)
    - EDS6365 - Education and National Development (3)
    - EDF6886 - Multicultural Education (3)
  - Earn at least 6 credits from the following types of courses:
    - EDG 6775 - Exploring Global Educational Issues in International Contexts 1-3 Credit Hours
    - EEC 6606 - Global Issues in Early Childhood 3 Credit Hours
    - Other graduate courses with the program director's approval

Thesis/Capstone Option
3 - 6 Total Credits

- Complete 1 of the following
  - Thesis
    - Earn at least 6 credits from the following types of courses:
      - IDS 6971 - Thesis Option
        - Student must complete an Intent to Graduate form the semester prior to enrolling in IDS 6971 or EDF 6635.
    - Capstone
      - Complete all of the following
        - Complete the following:
          - EDF6635 - Capstone: Action Research in Teacher Leadership (3)
  - Capstone
    - Student must complete an Intent to Graduate form the semester prior to enrolling in IDS 6971 or EDF 6635.

Grand Total Credits: 36 - 39

Track Details

* Should be taken in first semester in the program, if possible.

** Prerequisites for enrolling in the Thesis Option (IDS 6971) or Capstone (EDF 6635). Students complete a Thesis Option (6 credit hours) or a Capstone Research Project (3 credit hours) at the end of the program. Student must complete an Intent to Graduate form the semester prior to enrolling in IDS 6971 or EDF 6635.

- EDG 6935 - Introductory Seminar in Teacher Leadership 3 Credit Hours *
- EDG 6223 - Curriculum Theory, Organization, and Policy 3 Credit Hours
- EDF 6472 - Data-Driven Decision-Making for Instruction 3 Credit Hours **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice 3 Credit Hours **

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

2021-2022 Graduate Catalog
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Curriculum and Instruction MEd - Curriculum and Instruction MEd, Intervention Specialist Track

College

College of Community Innovation and Education

Department

School of Teacher Education

Track Website

https://ccie.ucf.edu/lser/curriculum-and-instruction/

Track Contact Information

Mary Little PhD
Professor
mary.little@ucf.edu
Telephone: 407-823-3275
ED 315J

Is this track available 100% online?

No

Track Description

***This program has temporarily suspended admissions effective Summer 2021***

The Intervention Specialist Track in the Curriculum and Instruction MEd program provides advanced coursework for educational leaders to use school-based and classroom instructional data to meet the instructional and intervention needs of all students, including at-risk and struggling students, beyond typical, initial classroom instruction within a multi-tiered system of supports.

In addition, this track will provide an advanced multi-disciplinary theoretical approach and applied knowledge base to experienced educators. Coursework focuses on knowledge, skills and competencies for working with students within an intervention framework.

The Intervention Specialist Track is multi-disciplinary and includes coursework in exceptional student education, school psychology, reading education, and math education. The graduate courses provide an opportunity for students to complete the Intervention Specialist track, as well as a graduate certificate, with separate applications required to each program.

The Intervention Specialist track in the Master in Education Teacher Leadership program requires 15 credit hours of core courses, including completion of a capstone research project (3 credit hours). In addition, students take 18 credit hours of specialization courses.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- One letter of recommendation.
- Goal statement.
- Resume/vita reflecting relevant experience.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines Notes

***This program has temporarily suspended admissions effective Summer 2021***

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core (See Program Details Below)

15 Total Credits

- Complete the following:
  - EDG6935 - Introductory Seminar in Teacher Leadership (3)
  - EDG6223 - Curriculum Theory, Organization, and Policy (3)
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)
  - EDF6233 - Introduction to Action Research and Analysis of Classroom Practice (3)
  - EDF6635 - Capstone: Action Research in Teacher Leadership (3)

Specialization

15 Total Credits

- Complete all of the following
  - Complete the following:
    - EEX6218 - Diagnostic Assessment and Intervention Planning in Exceptional Education (3)
    - MAE6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher (3)
    - RED5517 - Classroom Diagnosis and Development of Reading Proficiencies (3)
    - SPS6700 - Advanced Psychoeducation and Data-Based Decision Making (3)
    - EGI6246 - Education of Special Populations of Gifted Students (3)
  - One elective as approved by the program adviser maybe also be taken

Grand Total Credits: 30
**Track Details**

**Core: 15 Credit Hours**

* Must be taken in first semester in the program.

**Prerequisites to the Capstone.

Students complete a Capstone Action Research Project EDF 6635 at the end of the program. Students must complete an Intent to Graduate form the semester prior to enrolling in EDF 6635.

- **EDG 6935 - Introductory Seminar in Teacher Leadership** 3 Credit Hours *
- **EDG 6223 - Curriculum Theory, Organization, and Policy** 3 Credit Hours
- **EDF 6472 - Data-Driven Decision-Making for Instruction** 3 Credit Hours **
- **EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice** 3 Credit Hours **
- EDF 6635 - Capstone: Action Research in Teacher Leadership 3 Credit Hours

**Independent Learning**

The MEd requires a course-based action research study and completion of a capstone experience.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

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Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

**Fellowship Information**

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**Grad Fellowships**

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

**Curriculum and Instruction MEd - Curriculum and Instruction MEd, Supporting High Needs Populations Track**

**College**

College of Community Innovation and Education

**Department**

School of Teacher Education

**Track Website**

https://ccie.ucf.edu/lser/curriculum-and-instruction/

**Track Contact Information**

Martha Lue-Stewart PhD
Professor
martha.stewart@ucf.edu
Telephone: 407-823-2036
ED 315S

**Is this track available 100% online?**

No
Track Description

***This program has temporarily suspended admissions effective Summer 2021***

The Supporting High Needs Populations track in the Curriculum and Instruction MEd program is designed to meet the advanced knowledge and skill needs of educators who work in urban settings.

The Supporting High Needs Populations track in the Master of Education Curriculum and Instruction program requires 15 credit hours of core courses, including completion of a capstone research project. In addition, students take 18 credit hours of specialization courses.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines Notes

***This program has temporarily suspended admissions effective Summer 2021***

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core (See Program Details Below)

15 Total Credits

- Complete the following:
  - EDG6935 - Introductory Seminar in Teacher Leadership (3)
  - EDG6223 - Curriculum Theory, Organization, and Policy (3)
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)
  - EDF6233 - Introduction to Action Research and Analysis of Classroom Practice (3)
  - EDF6635 - Capstone: Action Research in Teacher Leadership (3)

Specialization

18 Total Credits

- Complete all of the following
  - Complete the following:
    - EDF6725 - Critical Issues in the Study of High Needs Populations (3)
    - EDF6155 - Lifespan Human Development and Learning (3)
  - Complete at least 4 of the following:
    - CCJ6485 - Issues in Justice Policy (3)
    - ECW6067 - History of Career Education in the United States (3)
    - EDF6206 - Challenges of Classroom Diversity (3)
    - EDF6886 - Multicultural Education (3)
    - EDG6636 - Impact of Social Contexts on Teaching and Learning (3)
    - EEX6342 - Seminar-Critical Issues in Special Education (3)
    - EGI6246 - Education of Special Populations of Gifted Students (3)
    - RED5147 - Developmental Reading (3)
    - SPS5605 - Building and Improving Relationship and Emotional Intelligence (3)
    - SPS6700 - Advanced Psychoeducation and Data-Based Decision Making (3)

Grand Total Credits: 33

Track Details

Core: 15 Credit Hours

* Must be taken in first semester in the program.

**Prerequisites to the Capstone.

Students complete a Capstone Action Research Project EDF 6635 at the end of the program. Students must complete an Intent to Graduate form the semester prior to enrolling in EDF 6635.

- EDG 6935 - Introductory Seminar in Teacher Leadership 3 Credit Hours *
- EDG 6223 - Curriculum Theory, Organization, and Policy 3 Credit Hours
- EDF 6472 - Data-Driven Decision-Making for Instruction 3 Credit Hours **
- EDF 6233 - Introduction to Action Research and Analysis of Classroom Practice 3 Credit Hours **
- EDF 6635 - Capstone: Action Research in Teacher Leadership 3 Credit Hours

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Dual Language Graduate Certificate

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Program Website
https://ccie.ucf.edu/teachered/k-12/world-languages-education/

Program Contact Information
Joyce Nutta, PhD
Professor
joyce.nutta@ucf.edu
Telephone: 407-4823-4341
ED 122M

Is this program available 100% online?
No

Program Description
The Dual Language Graduate Certificate in Teaching and Leadership prepares students with specialized knowledge and skills to teach in a dual language setting. The purpose of this certificate is to provide K-12 teacher and other education professionals with specialized coursework in Dual Language programming. This construct is aimed for students to develop competencies in bilingualism, biliteracy, and multiculturalism. The design of this program is to develop leadership among teachers working or planning to work in a dual language or two-way immersion programs in a K-12 setting. The coursework in this certificate program will allow teachers and administrators to develop expertise in philosophical/ideological principles, pedagogy, and curriculum and program processes for effective biliteracy program development.

The Dual Language Graduate Certificate can be completed in one or more semesters, depending on the semester of entrance. It can also be completed fully online.

Students must consult with their adviser or the program director prior to selecting the six courses for their program. No course substitutions are allowed.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Dual Languages Graduate Certificate</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<td>Domestic Applicants</td>
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<tr>
<td>International Applicants</td>
<td></td>
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</table>

2021-2022 Graduate Catalog
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete at least 6 of the following:
  - SPN6940 - Teaching Methods for the Spanish Classroom (3)
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
  - TSL6143 - Curriculum and Instruction in Dual Language Programs (3)
  - TSL6250 - Applied Linguistics in ESOL (3)
  - TSL6377 - Bilingualism, Multiculturalism, and Biliteracy in the Dual Language Classroom (3)
  - TSL6443 - Assessment in Dual Language Programs (3)
  - TSL6526 - Interdependencies of Language, Culture, and Education for Dual Language Learners (3)

Grand Total Credits: 18

e-Learning Design, Development, and Delivery Graduate Certificate

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Program Website

https://ccie.ucf.edu/

Program Contact Information

Glenda Gunter PhD
Associate Professor
glenda.gunter@ucf.edu
ED 322P

Is this program available 100% online?

Yes

UCF Online

Please Note: The e-Learning Design, Development and Delivery Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit www.international.ucf.edu. If you have questions, please consult International Affairs and Global Strategies at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

The Graduate Certificate in e-Learning Design, Development and Delivery is designed for educators in K-12 and higher education, trainers, and instructional designers.

The e-Learning Design, Development and Delivery certificate focuses on teaching the design, delivery, and evaluation of high-quality e-learning materials for in-service, preservice teacher and online trainers.

For the Graduate Certificate in e-Learning Professional Development, students complete 15 credit hours of required courses. For the recommended plan of study, noting when each course is offered, refer to the Instructional Technology program website under Plans of Study for graduate certificates.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>e-Learning Professional Development Graduate Certificate</th>
<th>*Fall Priority</th>
<th>Fall</th>
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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits

- Complete all of the following
  - Complete the following:
    - EME6613 - Instructional System Design (3)
    - EME6507 - Multimedia for Education and Training (3)
    - EME6457 - Distance Education: Technology Process Product (3)
    - EME6417 - Interactive Online and Virtual Teaching Environments (3)
    - EME6458 - Virtual Teaching and the Digital Educator (3)
  - *EME 6417 (fall) must be taken before EME 6458 (spring).

Grand Total Credits: 15

Early Childhood Development and Education MS
College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Program Website
https://ccie.ucf.edu/teachered/early-childhood-education/

Program Handbook
Early Childhood Development and Education MS

Program Contact Information
Judith Levin, Ed.D.
Associate Lecturer
judith.levin@ucf.edu
Telephone: 407-823-4615
Education 122

Is this program available 100% online?
No

Program Description
The Master of Science program in Early Childhood Development and Education (ECDE) is designed to meet the needs of professionals who want to work with young children and their families. The ECDE program delivers relevant, rigorous course work and related academic experiences.

The program is designed for candidates with undergraduate degrees in a wide range of areas either related to early childhood development and education, such as child development, psychology, communication disorders, sociology, nursing, theatre, music or other degrees. The program of study includes advanced professional development in early child development and education for careers with direct and indirect services for young children and families. Direct early education services to young children and families can include homes, schools, and other community settings, such as child care and Head Start. Indirect services can include: child assessment, program evaluation, child care resource and referral, early learning coalitions, community college instruction, and child advocacy. Graduates of this program are encouraged to serve as a bridge among schools and community agencies and to nurture leadership skills in these areas.

In addition to fostering the professional development of previously certified early childhood teachers, this program will also serve as a connection between schools, families, and community agencies and will provide the educational experiences to nurture educational leaders who will work within and across these areas.

The Early Childhood Development and Education MS program requires a minimum of 36 credit hours beyond the bachelor's degree, including 6 credit hours of core courses, 18 credit hours of specialization courses, 6 credit hours of electives, and 6 credit hours of a capstone experience in the form of a thesis or nonthesis/practicum or additional graduate course credit options.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation from academic sources.
- Professional resume.
- Essay detailing career goals.
- An interview (in person, virtual, or by phone) scheduled by the Early Childhood Graduate faculty.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission materials will be scored on a rubric to quantify decision criteria.

Students who do not meet published admission requirements may be admitted provisionally and will be interviewed by a faculty program committee for final admission action. Other admission factors that may be used in selecting students for provisional admission to the program include previous teaching experience or work (i.e., social service agencies) with infants and young children, pre-kindergarten or primary age children and their families.
Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Early Childhood Development and Education MS</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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<td>International Applicants</td>
<td>Jan 15</td>
<td>Jan 15</td>
<td></td>
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</tr>
</tbody>
</table>

Application Deadlines Notes

Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Required Courses
24 Total Credits

Details

Core
6 Total Credits

- Complete the following:
  - EDF6481 - Fundamentals of Graduate Research in Education (3)
  - EDF6401 - Statistics for Educational Data (3)

Specialization
18 Total Credits

- Complete the following:
  - EEC5205 - Programs and Trends in Early Childhood Education (3)
  - EEC6269 - Play Development, Intervention, and Assessment (3)
  - EEC6405 - Home-School-Community Interaction in Early Childhood Education (3)
  - EEC6406 - Guiding and Facilitating Social Competence (3)
  - EEC6695 - Global Issues in Early Childhood (3)
  - EEX6222 - Observation and Assessment of Young Children (3)

Elective Courses (Other courses of interest with consent of faculty may be selected)
6 Total Credits

- Complete at least 2 of the following:
  - EEC6216 - Communicative Arts in Early Childhood Education (3)
  - EEX6017 - Typical and Atypical Applied Child Development (3)
  - EEX5702 - Planning Curriculum for Pre-Kindergarten Children with Disabilities (3)
  - EEX5750 - Communication with Parents and Agencies (3)
  - MHS6403 - Group and Family Play Therapy (3)
  - MHS6421 - Foundations of Play Therapy and Expressive Arts (3)
  - SOW6726 - Social Work Practice with Children from Birth to Age Five and their Families (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
  - Nonthesis Option

  Complete 1 of the following
    - Earn at least 6 credits from the following types of courses:
      - EEC 6971 Thesis
      - 6 Credit Hours of approved electives with a written comprehensive examination

Grand Total Credits: 36

Program Details

Independent Learning

A thesis, practicum, or a written comprehensive examination is required as the culminating experience for the program.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

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http://finaid.ucf.edu

2021-2022 Graduate Catalog
Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Education EdS

College

College of Community Innovation and Education

Department

Department of Educational Leadership & Higher Education

Program Contact Information

Graduate Affairs
cciegrad@ucf.edu
Telephone: 407-823-5369
ED 115

Is this program available 100% online?
No

Program Description

The Specialist in Education program is designed with two tracks for students: the Master's + 30 Track and the School Counseling Track. The specialist program provides a foundation of advanced graduate course work but is not a "terminal" academic degree. The Education EdS is an advanced graduate program providing opportunities for master's graduates to enhance their professional preparation and/or preparation for the doctorate (either the EdD or the PhD) by completing additional graduate coursework that results in an earned degree.

The Master's + 30 Track is an advanced graduate program for post master's students. It is designed for professionals who wish to increase their knowledge to prepare for doctoral work, to add expertise in their current field of teaching, or to add an additional field of expertise.

The Specialist in Education (EdS)-School Counseling track in the CACREP accredited Counselor Education Program prepares students for certification as a professional school counselor in pre-K through postsecondary school settings. The Specialist in Education (EdS)-School Counseling track is designed for practicing educators/students who have a master's degree in education. The EdS in Education School Counseling Track prepares students to work as professional school counselors in Pre-K through postsecondary school settings.

Please scroll to the bottom of this page for further details on these Tracks.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track (i.e., Masters + 30 or School Counseling) in this program. Tracks may have different requirements.

Admission to an education specialist program is separate from admission to the doctoral program. Upon completion of the EdS degree, the student may apply for admission to a doctoral program.
Education EdS - Education EdS, Master's +30 Track

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Track Website
https://ccie.ucf.edu/teachered/secondaryed/

Track Handbook
Education EdS

Track Contact Information
Randall Hewitt PhD
Associate Professor
randall.hewitt@ucf.edu
Telephone: 407-823-4949
ED 122-P

Is this track available 100% online?
No

Track Description
This program has temporarily suspended admissions effective Summer 2020
The Education EdS, Master's +30 Track is an advanced graduate program for post-master's students. It is designed for professionals who wish to increase their knowledge to prepare for doctoral work, add expertise in their current field of teaching, or add an additional field of expertise.

The program prepares educators who are interested in teaching in a college, university or community college, or in leading curriculum and instructional improvement in a school or school district, higher education, or military or business settings.

The Master’s +30 track in the Education EdS program requires 30-33 credit hours beyond the master’s degree, including advanced foundational core courses, specialization courses, and a capstone seminar.

Total Credit Hours Required: 30-33 Credit Hours Minimum beyond the Master's Degree

Track Prerequisites
A master's degree in a related field of study.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a related field of study.
- An official GRE score is not required for admission to the Education Ed. S., Master's + 30 Track. However, preference will be given to applicants who submit a competitive score. Note that students who wish to co-enroll for the Ed.D. Program must apply to that program and comply with all admission criteria for that program including an acceptable GRE score.
- A goal statement detailing the specific subfield of education in which the applicant intends for a specialization and explains how the degree will contribute to the applicant’s career development plan. Applicants are strongly encouraged to contact faculty members in the College of Community Innovation and Education in their area of specialization before they apply to identify a potential advisor.
- Resume
- All applicants **must** attend an interview session and an orientation to be accepted to the program. These will be held on dates announced on the College of Community Innovation and Education website.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Application Deadlines Notes

**This program has temporarily suspended admissions effective Summer 2020**

Graduate School Contact

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
**Track Details**

**Required Courses: 30-33 Credit Hours**

**Advanced Foundational Core: 13-16 Credit Hours**

* Must be taken in the first semester of the program.

** Student completes either a Capstone Research Project or Thesis at the end of the program.

- EDE 6933 - Introductory Seminar in Elementary Education **1 Credit Hours** * For students with a specialization in Elementary Education or Reading Education
- ESE 6935 - Introductory Seminar in Secondary Education **1 Credit Hours** * For students with other specializations
- EDP 7517 - Facilitating Learning, Development and Motivation **3 Credit Hours**
- EDF 7457 - Data, Assessment, and Accountability **3 Credit Hours**
- EDA 7101 - Organizational Theory in Education **3 Credit Hours**
- EDF 6635 - Capstone: Action Research in Teacher Leadership **3 Credit Hours** or
  - IDS 6971 - Thesis **6 Credit Hours**

**Capstone: 2 Credit Hours**

- EDE 6935 - Capstone Seminar in Elementary Education **2 Credit Hours** For students with a specialization in Elementary Education or Reading Education
- ESE 6936 - Capstone Seminar in Secondary Education **2 Credit Hours** For students with other specializations

**Specialization: 15 Credit Hours**

For the specialization, students must complete 15 credit hours of specialization courses from one of the following UCF College of Community Innovation and Education programs. Courses are selected with approval of the student's adviser.

- One of the tracks in the Curriculum and Instruction MEd program
- The specialization or electives in another MEd program
- The concentration in the Education EdD program
- One of the tracks in the Education PhD program

**Independent Learning**

The EdS requires a small-scale research study (if co-enrolled in a doctoral program) or completion of a capstone experience such as an internship, research report, or thesis (if this is a “terminal” program for the student).

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

**Education EdS - Education EdS, School Counseling Track**

**College**

College of Community Innovation and Education

**Department**

Department of Counselor Education & School Psychology
Track Website

https://ccie.ucf.edu/cesp/counselored/

Track Contact Information

Stacy Van Horn, PhD
Associate Lecturer
Stacy.VanHorn@ucf.edu
Telephone: 407-823-2401
ED 322M

Is this track available 100% online?

No

Licensure Disclosure

The Specialist in Education (EdS)-School Counseling track has potential ties to state-regulated professional certification in the field. Students enrolled in the School Counseling track should remain in close contact with their advisor to keep informed of any programmatic changes implemented to comply with new state requirements. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Education-School-Counseling-EdS.pdf.

Track Description

The Specialist in Education (EdS)-School Counseling track in the CACREP accredited Counselor Education Program prepares students for certification as a professional school counselor in pre-K through postsecondary school settings. The Specialist in Education (EdS)-School Counseling track is designed for practicing educators/students who have a master's degree in education. As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and field-based experiences in the community. The UCF Community Counseling and Research Center serves as a hub for training and research in the program, with graduate students providing counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy. The CCRC serves more than 1400 individuals, couples, and families in the central Florida community. The Specialist in Education (EdS)-School Counseling track requires a minimum of 48 credit hours beyond the bachelor's degree, including 6 credit hours of core courses, 27 credit hours of specialization, 9 credit hours of professional clinical experiences, and 6 credit hours of electives in either the nonthesis or thesis option.

Total Credit Hours Required: 48 Credit Hours Minimum beyond the Master's Degree

Track Prerequisites

Evidence of a master's degree in education.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Evidence of a master's degree in education.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation
- Resumé.
- Goal statement (see the Program website for additional information about the Goal statement).

The Specialist in Education-School Counseling track can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

The College of Community Innovation and Education reserves the right to refuse student entrance or terminate a student after admission to the Specialist in Education-School Counseling track, if in the judgment of the faculty, the student demonstrates unacceptable personal fitness to work in the counseling field with children, youth, and/or adults.

A formal interview is required and will be scheduled after the program admission requirements are met. The interview dates are posted on the Counselor Education Program website. Upon admittance, it is required that students attend the program orientation session that occurs on the Thursday before classes begin in the semester to which the student applied.

Admission to an Education Specialist program is separate from admission to the Doctoral program. Upon completion of the EdS degree, the student may apply for admission to a Doctoral program.
# Graduate Application Deadlines

<table>
<thead>
<tr>
<th>School Counseling</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
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<td>Jan 15</td>
<td>Feb 1</td>
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<td>International Applicants</td>
<td>Jan 15</td>
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</table>

## Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

## Graduate School Contact

**Brandon Ruf**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

## Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

## Institution Codes

- GRE: 5233
- GMAT: RZT-HT-58
- TOEFL: 5233
- ETS PPI: 5233
Degree Requirements

Required Courses
33 Total Credits

Details

Core
6 Total Credits

Complete the following:
- EDF6155 - Lifespan Human Development and Learning (3)
- EDF6481 - Fundamentals of Graduate Research in Education (3)

Specialization
27 Total Credits

Complete the following:
- MHS6220 - Individual Psychoeducational Testing I (3)
- MHS6400 - Theories of Counseling and Personality (3)
- MHS6401 - Techniques of Counseling (3)
- MHS6420 - Foundations of Multicultural Counseling (3)
- MHS6500 - Group Procedures and Theories in Counseling (3)
- SD56347 - Career Development (3)
- SD56411 - Counseling with Children and Adolescents (3)
- SD56620 - Coordination of Comprehensive Professional School Counseling Programs (3)
- SPS6815 - Legal and Ethical Issues in Professional School Counseling (3)

Elective Courses
6 Total Credits

Earn at least 6 credits from the following types of courses:

Students must select two electives in their specialization as approved by their adviser.

Professional Clinical Experiences
9 Total Credits

Complete all of the following

The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients and students. The practicum is conducted either on campus in the UCF Community Counseling and Research Center or at one of the CCRC's partner schools in the community. Internship, which is usually completed in one semester (for 6-credit hours) is conducted at various schools around central Florida. The Internship can be divided into two semesters.

Complete the following:
- MHS6803 - Practicum in Counselor Education (3)
- Prerequisites for MHS 6803 - Practicum in Counselor Education are as follows: MHS 5005, MHS 6400, MHS 6401, MHS 6500, and SPS 6815. MHS 6420 and SDS 6411 are also pre or co-requisites for MHS 6803. A minimum of 27 credit hours are required prior to beginning the practicum.
- Earn at least 6 credits from the following:
  - SDS6947 - Internship in Professional School Counseling (1 - 6)
- The prerequisites for SDS 6947 - Internship in Professional School Counseling include SDS 6620 and earning a "B" or better in MHS 6803.

Grand Total Credits: 48
Track Details

Additional Program Requirements

- Achieve at least a GPA of 3.0 throughout the degree program.
- EdS students are strongly encouraged to take MHS 5005 during their first semester if it was not already taken in a Counselor Education master's program.
- Achieve a "B" or better in MHS 5005, MHS 6401, MHS 6803. and SDS 6947.
- Complete a total of 700 hours of clinical experiences, 100 of which will be in the UCF Community Counseling and Research Center (or an area school) and 600 of which are field-based experiences in the community.
- Complete a portfolio and receive approval by Counselor Education faculty.
- Complete a professional exit exam.
- Given the experiential, competency, and performance-based nature of the courses taken by Counselor Education students, students are typically limited to taking a maximum of three (3) courses per semester (with some variability for those in the School Counseling track). However, if students believe that they can verify a need to take more than three courses, they should consult with their advisor for additional guidance. Students who have no received prior approval and who register for more than three courses per semester will be administratively dropped from any courses over the maximum allowed.

DOE Certification - 9 Credit Hours

(EdS students need to have a Master’s in Education (MEd) degree in order to waive the following education courses):

- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms 3 Credit Hours
- RED 5147 - Developmental Reading 3 Credit Hours
- EDG 6415 - Principles of Instruction and Classroom Management 3 Credit Hours

Independent Learning

Practica and internships are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program. The internship experience provides students with the practical experience of facilitating a comprehensive, professional school counseling program in a school setting (e.g., leading classroom guidance lessons, facilitating group counseling, providing individual counseling services).

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

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Grad Fellowships

Telephone: 407-823-0127
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https://funding.graduate.ucf.edu

Education PhD

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Program Website

https://ccie.ucf.edu/education-phd/
Program Handbook

Education PhD

Program Contact Information

Graduate Affairs
cciegrad@ucf.edu
Telephone: 407-823-5369
ED 115

Is this program available 100% online?
No

Program Description

The Education PhD program prepares students for careers in teaching positions in research universities. The program offers the following tracks: Counselor Education, Early Childhood Education, Elementary Education, Exceptional Education, Exercise Physiology, Higher Education, Instructional Design and Technology, Learning Sciences, Mathematics Education, Methodology, Measurement and Analysis, Reading Education, Science Education, Social Science Education, and TESOL. Please scroll to the bottom of this page for further details on these tracks.

The PhD in Education is a research-oriented degree appropriate for those who seek positions in the professoriate or in school districts, businesses, industry, educational agencies and other educational settings that require a strong research base. It is the intent of this program to be interdisciplinary, allowing flexibility for students who will work in research clusters and learning communities with faculty on education-related research.

Programs of study can be designed for those who seek faculty positions in a research university or research-oriented education positions in business and industry.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements. Interview attendance is required for admission consideration. The one exception to this requirement: students applying who live outside of the United States. A Skype interview will be offered to students living outside of the United States if they meet the qualifications for an interview invitation. Please note: a Skype interview will not provide the same in-depth interview experience given to those attending our all day event.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Program Details

This section describes the elements of the curriculum that are in common for all of the tracks. The internship requirement is common to most of the tracks but not all, and more detail is provided on the internship in each specialization section.

Required Courses

Core: 24 Credit Hours

- IDS 7501 - Issues and Research in Education 3 Credit Hours
- IDS 7500 - Seminar in Educational Research 1-3 Credit Hours
  (variable credit, repeated for a total of 6 credit hours)
- EDF 7475 - Qualitative Research in Education 3 Credit Hours
- EDF 7403 - Quantitative Foundations of Educational Research 3 Credit Hours
- EDF 7463 - Analysis of Survey, Record, and Other Qualitative Data 3 Credit Hours
- IDS 7502 - Case Studies in Research Design 3 Credit Hours or one of the approved research electives from group A:
  - EDF 7406 - Multivariate Statistics in Education 3 Credit Hours or one of the approved research electives from group B:

Group A

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours

Group B

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours

Specialization and elective hours vary by track.

Internship: 3 Credit Hours

Specialization in all tracks must include a professional internship.

Dissertation: 15 Credit Hours

Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submission of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertation fulfills the independent learning requirement.

Education PhD - Education PhD, Communication Sciences and Disorders Track
Is this track available 100% online?
No

Track Description

This program is no longer accepting applications effective Summer 2017.

The Communication Sciences and Disorders track in the Education PhD program is designed specifically for those who wish to pursue careers as scholars, teachers and leaders in the area of school speech-language pathology with a content focus on language disorders and literacy.

The Communication Sciences and Disorders track in the Education PhD program is designed specifically for those who wish to pursue careers as scholars, teachers and leaders in the area of school speech-language pathology with a content focus on language disorders and literacy. The program prepares doctoral-level professionals to serve as university professors in academic or clinical course work and supervisors or directors of school programs at district, state or national levels. The emphasis is on developing expertise in conducting research to promote evidence-based practice and in collaborating with professionals from a variety of related disciplines.

The Communication Sciences and Disorders track in the Education PhD program requires a minimum of 81 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 18 credit hours of specialization courses, 9 credit hours of electives, and 24 credit hours of dissertation. In addition, the internship in this track requires 2 credit hours in university teaching, 2 credit hours in clinical supervision, and 2 credit hours of professional development. All students must complete the candidacy examination.

Total Credit Hours Required: 81 Credit Hours Minimum beyond the Master's Degree

Graduate School Contact

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gradadmissions@ucf.edu
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Online Application
Graduate Admissions

Mailing Address

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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Required Courses**
42 Total Credits

- **Details**

**Core**
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)

- Complete the following:
  - IDS7501 - Issues and Research in Education (3)
  - EDF7475 - Qualitative Research in Education (3)
  - EDF7403 - Quantitative Foundations of Educational Research (3)
  - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
  - IDS7502 - Case Studies in Research Design (3)
  - EDF7406 - Multivariate Statistics in Education (3)

- IDS 7502 - Case Studies in Research Design may be substituted with one of the approved research electives in Group A listed under Program Details.
- EDF 7406 - Multivariate Statistics in Education may be substituted with one of the approved research electives in Group B listed under Program Details.

**Specialization**
18 Total Credits

- Complete all of the following
  - Complete the following:
    - SPA6843 - Severe Language-Based Reading and Writing Disabilities (3)
    - SPA7490 - Advanced Studies in Language Disorders (3)
    - SPA7494 - Doctoral Seminar 1: Spoken and Written Language Disorders Preschool and Early Elem (3)
    - SPA7495 - Doctoral Seminar II: Spoken and Written Language Disorders (3)
    - IDS7657 - Professional Collaboration Around Language Issues (3)

- Earn at least 3 credits from the following types of courses:
  - SPA 7493 - Advanced Studies in School Speech-Language Pathology

**Elective Courses**
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  - Advanced course work in Reading - 3 Credit Hours
  - Advanced course work in Exceptional Education - 3 Credit Hours
  - Additional course work in Teaching English to Speakers of Other Languages - 3 Credit Hours

**Dissertation**
24 Total Credits

- Earn at least 24 credits from the following types of courses:
  - Dissertation Research
  Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

**Internship**
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - Specialization in all tracks must include a professional internship (minimum of 6 credit hours).
  - In the Communication Sciences and Disorders Track, however, students must complete a three-part internship:
    - University teaching 2 Credit Hours
    - Clinical supervision 2 Credit Hours
    - Professional development 2 Credit Hours

Grand Total Credits: **81**
Track Details

Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar 3 Credit Hours

Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)

Candidacy

To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken.

The following are required to be admitted to candidacy and enroll in dissertation hours:

- Completion of all course work, except for dissertation hours.
- Successful completion of the candidacy examination.
- Successful defense of the written dissertation proposal.
- The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
- Submittal of an approved program of study.

Candidacy Examinations

All PhD candidates will be required to complete two examinations.

Please note that there may be variations in length of exam time and content based on the respective requirements of each track.

- Research in the Specialization—8-hour written examination.
- Specialization—3-hour oral examination.

Independent Learning

The dissertation satisfies the independent learning requirement.

Education PhD - Education PhD, Counselor Education Track

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Track Website

https://ccie.ucf.edu/cesp/counselored

Track Handbook

Education PhD

2021-2022 Graduate Catalog
Track Contact Information

Ann Shillingford PhD
Associate Professor
Dr-S@ucf.edu
EDC 322 Q

Is this track available 100% online?

No

Track Description

The CACREP Accredited Counselor Education track in the Education PhD program is designed specifically for those who wish to pursue careers as counselor educators at the university level or as supervisors in schools or agencies. The Counselor Education PhD program offers courses and supervision that emphasize competence in teaching adult learners, counseling practice, clinical supervision, research/scholarship, and leadership/advocacy.

As part of the program's pragmatic approach to preparing counselor educators, in addition to classroom studies, all doctoral students complete clinical and supervisory experiences in the UCF Community Counseling and Research. The UCF Community Counseling and Research Center serves as a hub for training and research in the program, with doctoral students providing (a) counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy and (b) supervisory services to master's students during their practicum. The CCRC serves more than 1400 individuals, couples, and families in the central Florida community. Our programs objectives are centered on a primary goal, which is the education of outstanding counselor educators prepared to assume leadership roles in diverse settings.

The Counselor Education track in the Education PhD program requires a minimum of 69 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 21 credit hours of specialization courses, 15 credit hours of dissertation, and 9 credit hours of internship. All students must also complete the candidacy examination.

Total Credit Hours Required: 69 Credit Hours Minimum beyond the Master's Degree

Track Prerequisites

A master's degree in Counseling (or a closely related field) and master's level competency in educational research and statistics.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in Counseling (or a closely related field) and master's level competency in educational research and statistics.
- Official, competitive GRE score taken within the last five years.
- Letters of recommendation from faculty and/or supervisors.
- Goal statement. See program handbook for more information
- Résumé or curriculum vitae.
- A formal interview is required. Please refer to the Counselor Education webpage to view the current scheduled interview date and times. Click Get Started > Admission and Application Questions > Important Dates for Applicants and you will be able to view the current interview date and location information.

Graduate Application Deadlines

<table>
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<tr>
<th>Counselor Education</th>
<th>Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<td>International Applicants</td>
<td>Dec 1</td>
<td>Dec 1</td>
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<td></td>
</tr>
</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Required Courses
45 Total Credits

Details

Core
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)

Specialization
21 Total Credits

- Complete the following:
  - MHS7406 - Advanced Theories in Counseling (3)
  - MHS7801 - Advanced Practicum in Counselor Education (3)
  - MHS7700 - Literature and Leadership in Counselor Education (3)
  - MHS7311 - Scholarship and External Funding in Counselor Education (3)
  - MHS7611 - Supervision in Counselor Education (3)
  - MHS7730 - Research Seminar in Counselor Education (3)
  - MHS7497 - Advanced Multiculturalism in Counseling (3)

Required Internship
9 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - MHS7840 - Internship in Counselor Education (3)
  - Complete the following:
    - MHS7808 - Internship in Counseling Supervision (3)

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Candidacy
0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required candidacy examinations. Candidacy examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester the candidacy examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours: - Completion of all course work, except for dissertation hours. - Successful completion of the candidacy examination (both written and oral). - Successful defense of the written dissertation proposal. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Submission of an approved program of study.

Candidacy Examinations
0 Total Credits

- All PhD candidates will be required to complete a candidacy examination. Please note that there may be variations in length of exam time and content based on the respective requirements of each track. For the Counselor Education track in the Education PhD, there are five examination foci, each of which have a written component and a verbal defense component: - Counseling in Counselor Education. - Teaching in Counselor Education. - Supervision in Counselor Education. - Research & Scholarship in Counselor Education. - Leadership & Advocacy in Counselor Education. For more information on the candidacy exams, refer to the Counselor Education PhD Handbook.

Grand Total Credits: 69
Track Details

Independent Learning

The dissertation satisfies the independent learning requirement.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Education PhD - Education PhD, Early Childhood Track

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Track Website

https://ccie.ucf.edu/teachered/early-childhood-education/

Track Contact Information

Judith Levin, EdD
Associate Lecturer
judith.levin@ucf.edu
Telephone: 407-823-4615
Education 122

Is this track available 100% online?

No

Track Description

This program has temporarily suspended admission effective Fall 2020.

The Early Childhood track in the Education PhD program requires a minimum of 60 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 15 credit hours of specialization courses, 6 credit hours of independent study, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Track Prerequisites

A master's degree in a related field of study.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a related field of study.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.
- Writing sample.
- Interview.

Application Deadlines Notes

This program has temporarily suspended admission effective Fall 2020.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)

- IDS 7502 - Case Studies in Research Design may be substituted with one of the approved research electives in Group A listed under Program Details
- EDF 7406 - Multivariate Statistics in Education may be substituted with one of the approved research electives in Group B listed under Program Details

Specialization Courses
15 Total Credits

- Complete the following:
  - EEC7058 - Theoretical Foundations of Early Childhood (3)
  - EEC7673 - Early Childhood: Professional Publishing and Grant Writing (3)
  - EEC7055 - Advocacy, Public Policy, and Program Evaluation (3)
  - EEC7409 - Current Trends in Child, Family, and Community Sciences (3)
  - EEC7676 - Critical Analysis of Early Childhood Research (3)

Required Internship
6 Total Credits

- Complete the following:
  - EEC7945 - Early Childhood: Internship in Teaching and Supervision (3)
  - EEC7948 - Early Childhood: Internship in Research (3)

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - Dissertation Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Candidacy
0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours: - Completion of all course work, except for dissertation hours. - Successful completion of the candidacy examination. - Successful defense of the written dissertation proposal. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Submittal of an approved program of study.

Candidacy Examinations
0 Total Credits

- All PhD candidates will be required to complete two examinations. Please note that there may be variations in length of exam time and content based on the respective requirements of each track. - Research in the Specialization—8-hour written examination. - Specialization—3-hour oral examination.

Grand Total Credits: 60
Track Details

Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling in Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis in Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar 3 Credit Hours

Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling in Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis in Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)

The dissertation satisfies the independent learning requirement.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

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Millican Hall 120
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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Education PhD - Education PhD, Elementary Education Track

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Track Website
https://ccie.ucf.edu/teachered/elementary-education/
Track Contact Information

Sherron Roberts EdD
Professor
sherron.roberts@ucf.edu
EDU 315U

Is this track available 100% online?

No

Track Description

This program has temporarily suspended admission effective Fall 2020.

The Elementary Education track in the Education PhD program is designed to provide further education for those aspiring to work in the area of education at the post-secondary level (four-year colleges and/or research universities).

The program permits students to concentrate their doctoral study in either a field of emphasis, such as science, mathematics, literacy and social studies, or to create an interdisciplinary focus, such as mathematics-science or reading-social studies. The program of study is most appropriate for educators who can create, analyze and synthesize educational studies and for educators seeking employment in settings requiring a strong research base. In contrast to the EdD, the doctoral program relies on students who progress through their program of study in cohorts and who are full members of the learning community of the College of Community Innovation and Education. The program includes a strong philosophical base, research seminars requiring one-on-one work with faculty members, cluster seminars requiring work with several faculty members in interdisciplinary research projects, and long-term mentoring via supervised internships.

The Elementary Education track in the Education PhD program requires a minimum of 60 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 6 credit hours of specialization courses, 12 credit hours of electives, 3-6 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Track Prerequisites

A master's degree in a related field of study, including one Graduate Curriculum course, and master's level competency in educational research and statistics.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a related field of study, including one Graduate Curriculum course, and master's level competency in educational research and statistics.
- A minimum of 12 credit hours of Graduate Education courses.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Resumé.
- Writing sample.
- Interview.
- Elementary certification, with a minimum of three years teaching experience in early childhood, elementary, or middle school.

Application Deadlines Notes

This program has temporarily suspended admission effective Fall 2020.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
30 Total Credits

- Details

Core
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)
  - IDS 7502 - Case Studies in Research Design may be substituted with one of the approved research electives in Group A listed under Program Details

EDF 7406 - Multivariate Statistics in Education may be substituted with one of the approved research electives in Group B listed under Program Details

Specialization
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - Philosophical Foundations for Studies in Education 3 Credit Hours
  - Writing for Professional Publication in Education 3 Credit Hours

Elective Courses
12 Total Credits

- Earn at least 12 credits from the following types of courses:
  - Areas of emphasis: four additional courses in one or more areas including Science Education, Literacy Education, Technology Education, or Arts Education with one course from outside the college in a related field of study (12 credit hours minimum).

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - EDE 7980 - Dissertation Research Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Required Internship
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - EDE 6946 Elementary Education Internship Depending on the student's experiential background, the program of study requires three to six variable credit hours of supervised internships. Often elementary teachers seeking the PhD have served as successful supervising teachers to undergraduate interns. If this is not the case, the adviser may seek to have the doctoral student take three credit hours to serve as a supervised internship coordinator at the university level. Additionally, students
interested in long-term goals related to research may want to use the variable credit hours to accumulate a minimum of 250 hours as a supervised intern working for an educational researcher. Most likely, since our doctoral students’ career goals will align with the professoriate, students will be required to teach one university course with supervision and feedback from an established professor. The adviser/program coordinator will determine the kind of internship and the number of semester hours needed. These internship experiences are highly valued and set the candidate apart from other applicants as they seek employment at the college and university level.

Candidacy
0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours: - Completion of all course work, except for dissertation hours. - Successful completion of the candidacy examination. - Successful defense of the written dissertation proposal. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Submission of an approved program of study.

Candidacy Examinations
0 Total Credits

- All PhD candidates will be required to complete two examinations. Please note that there may be variations in length of exam time and content based on the respective requirements of each track. - Research in the Specialization—8-hour written examination. - Specialization—3-hour oral examination.

Grand Total Credits: 60

Track Details

Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar 3 Credit Hours

Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)

Financial Information

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UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

2021-2022 Graduate Catalog
**Fellowship Information**

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**Grad Fellowships**
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

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**Education PhD - Education PhD, Exceptional Education Track**

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Track Website**
https://ccie.ucf.edu/teachered/exceptional-student-education/

**Track Contact Information**

Lisa Dieker PhD
Pegasus Professor
ldieker@ucf.edu
Telephone: 407-823-3885
ED 315M

**Is this track available 100% online?**
No

**Track Description**

The Exceptional Education track in the Education PhD program is designed to prepare highly competent doctoral-level professionals to assume leadership positions in teaching, research and service in the area of special education.

The Exceptional Education track is a challenging program of study. The program focuses on developing the qualifications to conduct research, implement best practices based on research, and evaluate new programs and projects that serve students with disabilities.

The Exceptional Education track in the Education PhD program requires a minimum of 60 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 15 credit hours of specialization courses, 6 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

**Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree**

**Track Prerequisites**
A master's degree in a closely related field.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master’s degree in a closely related field.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé
- A timed writing sample produced during the interview.
- Group interview with faculty. Current doctoral students may also interview applicants.
Graduate Application Deadlines

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<th>Exceptional Education</th>
<th>*Fall Priority</th>
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<tr>
<td>International Applicants</td>
<td>Jan 1</td>
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Application Deadlines Notes
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

The Fall 2022 Application Deadline has been extended until April 1, 2022.

Graduate School Contact
Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
39 Total Credits

- Details

Core Courses
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)
  - IDS 7502 - Case Studies in Research Design may be substituted with one of the approved research electives in Group A listed under Program Details
  - EDF 7406 - Multivariate Statistics in Education may be substituted with one of the approved research electives in Group B listed under Program Details

Specialization Courses
15 Total Credits

- Complete the following:
  - EEX7936 - Current Issues Trends in Special Education (3)
  - EEX7527 - Professional Writing Grant Writing in Special Education (3)
  - EEX7766 - Technology Research Training in Special Education (3)
  - EEX7428 - Personnel Preparation: Special Education (3)
  - EEX7320 - Program Evaluation and Planning in Special Education (3)

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - EEX 7980 - Dissertation Research
    - Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Internship
6 Total Credits

- Complete the following:
  - EEX7865 - Internship in College Instruction in Special Education (3)
  - EEX7866 - Internship in Practicum Supervision in Special Education (3)

Candidacy
0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours: - Completion of all course work, except for dissertation hours. - Successful defense of the written dissertation proposal. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Submission of an approved program of study.

Candidacy Examinations
0 Total Credits

- All PhD candidates will be required to complete two examinations. Please note that there may be variations in length of exam time and content based on the respective requirements of each track. - Research in the Specialization—8-hour written examination. - Specialization—3-hour oral examination.

Grand Total Credits: 60
Track Details

Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar 3 Credit Hours

Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
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- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)

Independent Learning

The dissertation satisfies the independent learning requirement.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Education PhD - Education PhD, Higher Education Track

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Track Website

https://ccie.ucf.edu/elhe/higher-education/
**Track Contact Information**

**Thomas Cox EdD**  
Associate Professor  
thomas.cox@ucf.edu  
ED 315

**Is this track available 100% online?**

No

**Track Description**

*This program has temporarily suspended admission effective Fall 2020.*

The Higher Education track in the Education PhD program is designed for applicants who have extensive experience as administrators or staff in postsecondary institutions who want to pursue careers as scholars and leaders.

A doctoral degree in this track will broaden the analytical skills necessary to contribute to the advancement of the field of higher education through research, administration and teaching. The students in this program are considered future leaders interested in intensive study of the organizational and policy issues influencing the diverse sector comprising contemporary American postsecondary education.

The Higher Education track in the Education PhD program requires 66 credit hours beyond the master's degree. The curriculum includes 24 credit hours of core courses, 27 credit hours of specialization courses, and 15 credit hours of dissertation.

**Total Credit Hours Required: 66 Credit Hours Minimum beyond the Master's Degree**

**Track Prerequisites**

A master's degree in a closely related field from a regionally accredited institution.

Evidence of a minimum of one year full-time or two years part-time professional higher education work experience.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Evidence of a minimum of one year full-time or two years part-time professional higher education work experience. Evidence may include, but not be limited to, any one of the following: work experience listed on the resume/CV with confirmation email/telephone, letter of reference, or copies of annual reviews, etc. (Please note that graduate assistantships, teaching assistantships, internships and practica do not fulfill this requirement.)
- One official transcript (in a sealed envelope) from each college/university attended.
- Minimum GPA of 3.0 (on 4.0 scale) in the last 60 credit hours of undergraduate degree.
- Minimum GPA of 3.0 (on 4.0 scale) for all graduate work at the time of application.
- A master's degree in a closely related field from a regionally accredited institution.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation (electronic or hard copy).
- Goal statement. (Describe the following: preparedness for the program, career goals related to program, and potential area of research interest in the program.)
- Résumé/CV.
- Submit one of the following writing samples: research paper, journal article, grant proposal, policy analysis, or program evaluation.

**Application Deadlines Notes**

*This program has temporarily suspended admission effective Fall 2020.*
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
51 Total Credits

• Details

Core
24 Total Credits

• Complete all of the following
  • Earn at least 6 credits from the following:
    • IDS7500 - Seminar in Educational Research (1 - 99)
  • Complete the following:
    • IDS7501 - Issues and Research in Education (3)
    • EDF7475 - Qualitative Research in Education (3)
    • EDF7403 - Quantitative Foundations of Educational Research (3)
    • EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    • IDS7502 - Case Studies in Research Design (3)
    • EDF7406 - Multivariate Statistics in Education (3)

Specialization
27 Total Credits

• Complete all of the following
  • Complete the following:
    • EDH7401 - Higher Education and Public Policy (3)
    • EDH7401 - Higher Education and Public Policy (3)
    • EDH7934 - Higher Ed Literature, Research, and Professional Writing Seminar (3)
    • EDH7066 - Higher Education: Philosophical/Historical Perspectives (3)
    • EDH7508 - Finance in Higher Education (3)
    • EDH7665 - Higher Education Leadership (3)
    • EDH7636 - Organizational Theory and Practices in Higher Education (3)

• Earn at least 3 credits from the following types of courses:
  • EDH 7047 - Diversity in Issues Higher Education
  • Complete at least 1 of the following:
    • EDH7631 - Managing change, conflict, and stability in Higher Education (3)
    • EDH7207 - Curriculum, Instruction, and Distance Learning in Higher Education (3)
    • EDH7366 - Assessment Practices in Higher Education (3)
    • EDH7208 - International Perspectives of Higher Education (3)

Candidacy Examination
0 Total Credits

• Candidacy examinations will be scheduled near the tenth week of the fall and spring semesters; summer exams will not be offered. The exams are: - Part 1. Written examination (submitted through webcourses) - Part 2. Oral examination Evidence of the following are required to be eligible to complete the doctoral comprehensive examination in the Education PhD program, Higher Education track: - Currently enrolled in the university during the semester any comprehensive examination is taken. - Submission of an approved program of study (overall GPA 3.0 or greater on all graduate work). - Completion of most course work. (Students may only take exams when only 2-3 semesters of course work remain. This statement does not refer to
dissertation hours.) - In consultation with program faculty, the dissertation advisory committee is formed, paperwork filed, and approved. (Committee consists of four members: a minimum of three approved CCIE graduate faculty and one approved graduate faculty scholar or CCIE faculty.) - Submission of an approved doctoral comprehensive examination application by the stated deadline. - Fulfill any program deadlines for submitting comprehensive examination content-related materials (topics, questions, etc.) to the program coordinator by the stated deadline. (See program website for details HEPS: https://ccie.ucf.edu/elhe/higher-education).

Candidacy

- Candidacy is the stage of doctoral studies when students focus exclusively on planning, researching and writing their proposal and dissertation. To enter candidacy for the Education Ph.D. program, Higher Education track, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. In addition, evidence of the following are required to be admitted to candidacy and enroll in dissertation hours at least one week before the first day of classes for which the students wishes to enroll in dissertation hours: - Submission of an approved program of study. - Completion of all course work, except for dissertation hours. - Successful completion of all parts of the candidacy examinations. - In consultation with program faculty, the dissertation advisory committee is formed, paperwork filed, and approved. (Committee consists of four members: a minimum of three approved CCIE graduate faculty and one approved graduate faculty scholar or CCIE faculty.) Note: Once students enter Candidacy, they must enroll in a minimum of three dissertation hours (see below) every semester (including summers), until they graduate from the program.

Dissertation

- Earn at least 15 credits from the following types of courses:
  - Dissertation Research Registration for dissertation hours is not permitted until the student is admitted to Candidacy. Doctoral students must work with their doctoral adviser/major professor to prepare a proposal and present and defend the proposal to the dissertation committee. Once the proposal is completed and approval is secured from the UCF Institutional Review Board (IRB), students conduct research and submit and defend the final research dissertation to their dissertation committee. Required Documentation During Dissertation Stage All items listed are necessary to fulfill the requirements to graduate. Application to Defend Dissertation Proposal Dissertation Proposal Approval Application for IRB Approval of Research Defense Dissertation Announcement Dissertation Approval Application to Graduate All necessary requirements of the College of Graduate Studies for graduation

Track Details

Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar 3 Credit Hours

Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)

Independent Learning

The dissertation satisfies the independent learning experience.
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Education PhD - Education PhD, Instructional Design and Technology Track

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Track Website
https://ccie.ucf.edu/lser/instructional-design-and-technology/

Track Contact Information
Atsusi Hirumi PhD
Associate Professor
hirumi@ucf.edu
ED 320-F

Is this track available 100% online?
No

Track Description
The Instructional Design and Technology track in the Education PhD program prepares students for teaching and research in the field of instructional design and technology, instructional systems, educational technology, and e-learning in professions such as university professor, corporate directors of training and human resources, and corporate researchers.

The focus is on the design of conventional in-class, online and hybrid training and educational programs, and the application of appropriate instructional technologies to facilitate adult learner. For more information about the Instructional Design and Technology track, visit education.ucf.edu/insttech.

The Instructional Design and Technology track in the Education PhD program requires a minimum of 60 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 9 credit hours of specialization courses, 9 credit hours of electives, 3 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Track Prerequisites
A master's degree in a closely related field.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.
- Official, competitive GRE (Verbal, Quantitative, and Written) score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.
- Writing sample of a ten to twenty-page original paper on any topic.

Graduate Application Deadlines

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Application Deadlines Notes

* Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Required Courses
33 Total Credits

Details

Core
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)
  - IDS 7502 - Case Studies in Research Design may be substituted with one of the approved research electives in Group A listed under Program Details EDF 7406 - Multivariate Statistics in Education may be substituted with one of the approved research electives in Group B listed under Program Details

Specialization
9 Total Credits

- Complete the following:
  - IDS6504 - Adult Learning (3)
  - IDS6503 - International Trends in Instructional Systems (3)
  - EME7634 - Advanced Instructional Systems Design (3)

Elective Courses
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  - Cognate or elective; approved by adviser

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - EME 7980 - Dissertation Research Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Required Internship
3 Total Credits

- Complete the following:
  - EME7942 - Doctoral Internship in Educational Technology (3)

Candidacy
0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours: - Submission and completion of approved program of study, except for dissertation hours. - Successful completion of the candidacy examination. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Satisfactory progress toward the independent learning requirements as evidenced by the annual accomplishments and activities report.

Candidacy Examinations
0 Total Credits

- All PhD candidates will be required to complete two examinations. Please note that there may be variations in length of exam time and content based on the respective requirements of each track. - Research in the Specialization—8-hour written examination. - Specialization—3-hour oral examination.

Grand Total Credits: 60
Track Details

Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar 3 Credit Hours

Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)

Independent Learning

During their program of study, PhD students are required to meet the following requirements for independent learning to enter candidacy, including:

- Submitting a manuscript that is deemed appropriate by at least one program faculty member for publication in a peer-reviewed journal.
- Presenting research in at least one international, national or state conference.
- Presenting at university and/or college research symposiums annually.
- Providing service to professional organization, community partner, and/or program.
- Documenting and presenting independent learning accomplishments and activities along with development of an individual research agenda deemed satisfactory by at least two or more program faculty on an annual basis.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Education PhD - Education PhD, Learning Sciences Track

College
College of Community Innovation and Education
Track Website
https://ccie.ucf.edu/education-phd/

Track Contact Information
Michelle Taub PhD
Assistant Professor
michelle.taub@ucf.edu
HPAII 238-A

Is this track available 100% online?
No

Track Description
The Learning Sciences track in the Education PhD program is an interdisciplinary track within the Education PhD that will expose students to key components of research on learning with additional training on using big data for research on learning analytics and data science for focus on learning for both humans and machines. The track will provide learning opportunities (i.e., cognitive science, computer science, data science, education, psychology, statistics) for graduate students at UCF who seek careers in both academia and industry. The program will contain the core courses from the Education PhD, but requires at least 9 hours of required specialization credits in specific Learning Sciences courses and at least 6 hours of required elective credits, providing students the opportunity to earn a certificate in a related field of human-machine learning, if desired. This will increase career opportunities for interdisciplinary research jobs in academia or industry across the country.

The Learning Sciences track in the Education PhD program requires a minimum of 54 credit hours beyond a master's degree in Learning Sciences or a related field.

Students must complete 24 credit hours of core courses, 9 credit hours of specialization courses, 6 credit hours of electives, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 54 Credit Hours Minimum beyond the Master's Degree

Track Prerequisites
A master's degree in a closely related field.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.
- Official, competitive GRE (Verbal, Quantitative, and Written) score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.
- Writing sample of a ten to twenty-page original paper on any topic.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
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Institution Codes
GRE: 5233
GMAT: RZT-HT-58
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ETS PPI: 5233
Degree Requirements

Required Courses
33 Total Credits

- Details

Core
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)

- IDS 7502 - Case Studies in Research Design may be substituted with one of the approved research electives in Group A listed under Program Details
- EDF 7406 - Multivariate Statistics in Education may be substituted with one of the approved research electives in Group B listed under Program Details

Specialization
9 Total Credits

- Complete the following:
  - EME6938ST2 - ST: Research on Advanced Learning Technologies (3)
  - EME6938ST1 - Theoretical Foundations of the Learning Sciences (3)
  - EME6938ST3 - ST: Metacognition (3)

Elective Courses
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - Students will select at least 2 courses from the following disciplines: - Psychology (PSY) - Statistics (STA) can include the SAS Data Mining Graduate Certificate (15 credit hours) - Philosophy and Cognitive Science (PHI) can include the Cognitive Sciences Graduate Certificate (18 credit hours) - Computer Science (CS) - Multidisciplinary Neuroscience Alliance (MDNA) interdisciplinary program

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - EME 7980 - Dissertation Research Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Candidacy
0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours: - Submission and completion of approved program of study, except for dissertation hours. - Successful completion of the candidacy examination. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Satisfactory progress toward the independent learning requirements as evidenced by the annual accomplishments and activities report.

Candidacy Examinations
0 Total Credits

- All PhD candidates will be required to complete two examinations. Please note that there may be variations in length of exam time and content based on the respective requirements of each track. - Research in the Specialization—8-hour written examination. - Specialization—3-hour oral examination.

Grand Total Credits: 54
Track Details

Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling in Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis in Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar 3 Credit Hours

Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
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- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)

Independent Learning

During their program of study, PhD students are required to meet the following requirements for independent learning to enter candidacy, including:

- Submitting a manuscript that is deemed appropriate by at least one program faculty member for publication in a peer-reviewed journal.
- Presenting research in at least one international, national or state conference.
- Presenting at university and/or college research symposiums annually.
- Providing service to professional organization, community partner, and/or program.
- Documenting and presenting independent learning accomplishments and activities along with development of an individual research agenda deemed satisfactory by at least two or more program faculty on an annual basis.

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Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

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Telephone: 407-823-0127
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https://funding.graduate.ucf.edu

Education PhD - Education PhD, Mathematics Education Track

College
College of Community Innovation and Education
Department
School of Teacher Education

Track Website
https://ccie.ucf.edu/teachered/secondaryed/

Track Contact Information
Sarah B. Bush PhD
Professor
sarah.bush@ucf.edu
ED 123D

Is this track available 100% online?
No

Track Description
The Mathematics Education track in the Education PhD program is designed to prepare mathematics educators for various career options, including preparing educators, teaching postsecondary mathematics, and conducting research in mathematics education.

Doctoral students in the track engage in undergraduate teaching, participate in research activities with faculty, experience internships, and interact with the nationally acclaimed Lockheed Martin/UCF Teaching Academy for Mathematics and Science.

The Mathematics Education track in the Education PhD program requires a minimum of 63 credit hours beyond the master’s degree. Students must complete 24 credit hours of core courses, 9 credit hours of specialization courses, 12 credit hours of electives, 3 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 63 Credit Hours Minimum beyond the Master’s Degree

Track Prerequisites
A master’s degree in a closely related field and master’s level competency in educational research and statistics.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field and master's level competency in educational research and statistics.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.

Graduate Application Deadlines

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<tr>
<td>International Applicants</td>
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<td>Jan 1</td>
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</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Required Courses**

33 Total Credits

- **Details**

**Core**

24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)

- IDS 7502 - Case Studies in Research Design may be substituted with one of the approved research electives in Group A listed under Program Details
- EDF 7406 - Multivariate Statistics in Education may be substituted with one of the approved research electives in Group B listed under Program Details

**Specialization**

9 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - MAE7795 - Seminar on Research in Mathematics Education (3)
  - Complete the following:
    - MAE7640 - History of Mathematics Education (3)

**Elective Courses**

12 Total Credits

- Earn at least 12 credits from the following types of courses:
  - Course work in elementary mathematics education 3 Credit Hours
  - Course work in secondary mathematics education 3 Credit Hours
  - Course work in mathematics or mathematics education 6 Credit Hours

**Dissertation**

15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - MAE 7980 - Dissertation Research
  - Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

**Internship**

3 Total Credits

- Complete the following:
  - MAE7945 - Internship in Mathematics Education (3)

**Candidacy**

0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours:
  - Completion of all course work, except for dissertation hours.
  - Successful completion of the candidacy examination.
  - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
  - Submission of an approved program of study.

**Candidacy Examinations**

0 Total Credits

- All PhD candidates will be required to complete two examinations. Please note that there may be variations in length of exam time and content based on the respective requirements of each track.
  - Research in the Specialization—8-hour written examination.
  - Specialization—3-hour oral examination.

Grand Total Credits: 63
Track Details

Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar 3 Credit Hours

Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)

Independent Learning

The dissertation satisfies the independent learning requirement.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu
http://finaid.ucf.edu

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Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Education PhD - Education PhD, Methodology, Measurement and Analysis Track

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Track Website

https://ccie.ucf.edu/methodology-measurement-and-analysis/
Track Contact Information

Debbie L. Hahs-Vaughn, Ph.D.
Professor
debbie@ucf.edu
ED222M

Is this track available 100% online?
No

Track Description

The Methodology, Measurement, and Analysis track in the Education PhD program is designed to prepare methodologists in education, the social sciences, and other human sciences for either the professoriate or practice including diverse quantitative and qualitative areas such as statistical consulting and data analytic fields, psychometrics, and program evaluation.

Four major areas are encompassed in the Methodology, Measurement, and Analysis program: quantitative research, qualitative research, measurement, and program evaluation.

Track Prerequisites

A master’s degree in a closely related field.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Resumé.
- Writing Sample.
- Interview.

Graduate Application Deadlines

<table>
<thead>
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<th>Methodology, Measurement and Analysis</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

2021-2022 Graduate Catalog
Required Courses
42 Total Credits

- Details

Core
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - EDF7475 - Qualitative Research in Education (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)
  - IDS 7502 - Case Studies in Research Design may be substituted for one of the approved research electives from group A listed in the Program Details section below. EDF 7406 - Multivariate Statistics in Education may be substituted for one of the approved research electives from group B listed in the Program Details section below.

Specialization
18 Total Credits

- Complete the following:
  - EDF7427 - Psychometrics (3)
  - EDF7405 - Quantitative Methods II (3)
  - EDF7476 - Advanced Research Methods (3)
  - EDF7406 - Multivariate Statistics in Education (3)
  - EDF7474 - Multilevel Data Analysis In Education (3)
  - EDF7415 - Latent Variable Modeling In Education (3)

Electives
6 Total Credits

- Complete at least 2 of the following:
  - EDF6447 - Development and Validation of Educational Tests and Measures (3)
  - EDF6464 - Mixed Methods for Evaluation in Educational Settings (3)
  - EDF6486 - Research Design in Education (3)
  - EDF7410 - Application of Nonparametric and Categorical Data Analysis in Education (3)
  - EDG6285 - Evaluation of School Programs (3)
  - EDF7473 - Ethnography in Educational Settings (3)
  - EDF7488 - Monte Carlo Simulation Research in Education (3)
  - EDF7479 - Applications of Technology in Qualitative Research: Data, Organization, and Analysis (3)

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - EDF 7980 - Dissertation Research Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Internship
3 Total Credits

- Complete the following:
  - EDF7947 - Internship in Methodology, Measurement, and Analysis (3)

Candidacy
0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours: - Completion of all course work, except for dissertation hours. - Successful completion of the candidacy examination. - Successful defense of the written dissertation proposal. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Submittal of an approved program of study.

Candidacy Examinations
0 Total Credits
All PhD candidates will be required to complete two examinations. Please note that there may be variations in length of exam time and content based on the respective requirements of each track. - Research in the Specialization—8-hour written examination. - Specialization—3-hour oral examination.

Grand Total Credits: 66

**Track Details**

**Group A** (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar 3 Credit Hours

**Group B** (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)

**Independent Learning**

The dissertation satisfies the independent learning experience.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127  
gradfellowship@ucf.edu  
https://funding.graduate.ucf.edu

**Education PhD - Education PhD, Reading Education Track**

**College**

College of Community Innovation and Education

**Department**

Learning Sciences & Educational Research
Track Website

https://ccie.ucf.edu/teachered/k-12/

Track Contact Information

Vicky Zygouris-Coe PhD
Assistant Professor
Vassiliki.Zygouris-Coe@ucf.edu
Telephone: 407-823-0386
ED 315

Is this track available 100% online?

No

Track Description

This program has temporarily suspended admission effective Fall 2020.

The Reading Education track in the Education PhD program is designed to provide further education for those aspiring to work in the area of education at the post-secondary level (four-year college and/or research university) or as a lead teacher/resource teacher for a school district. The program assumes prior study in reading education.

The program provides for an area of advanced study in the field of reading and a concentration in a closely related field. The program includes a strong research base through the research core and specialization course work and an internship during which a candidate gains professorial experience.

Students are required to have the equivalent of the Master of Education in Reading degree, 21 hours of graduate reading education credit, prior to entering the program. In the event that a student does not have 21 hours of graduate reading education credit, the student can be admitted to the program, but will be required to complete the 21 hours in addition to the required program hours.

The Reading Education track in the Education PhD program requires a minimum of 69 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 15 credit hours of specialization courses, 9 credit hours of electives, 3-6 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 69 Credit Hours Minimum beyond the Master's Degree

Track Prerequisites

A master's degree in a related field of study, including one Graduate Curriculum course, and master's level competency in educational research and statistics.

A minimum of 21 credit hours of graduate reading education courses.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master’s degree in a related field of study, including one Graduate Curriculum course, and master's level competency in educational research and statistics.
- A minimum of 21 credit hours of graduate reading education courses.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.
- Writing sample.
- Interview

Application Deadlines Notes

This program has temporarily suspended admission effective Fall 2020.
Graduate School Contact

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Graduate Admissions

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Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
39 Total Credits

- Details

Core
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)
  - IDS 7502 - Case Studies in Research Design may be substituted for one of the approved research electives from group A listed in the Program Details section below. EDF 7406 - Multivariate Statistics in Education may be substituted for one of the approved research electives from group B listed in the Program Details section below.

Specialization
15 Total Credits

- Complete the following:
  - RED7797 - Theoretical Processes of Reading Comprehension (3)
  - RED7743 - Reading and Writing Processes (3)
  - RED7648 - Analysis and Evaluation of Trends and Issues in Literacy Education (3)
  - RED7745 - Research in Reading Education Seminar (3)
  - RED7697 - Literacy for the Twenty-First Century (3)

Elective Courses
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  Students choose a minimum of 9 credit hours of elective courses from a concentration in a related field, such as Communication Sciences and Disorders, Exceptional Student Education, TESOL, Language Arts Education, Children's/Adolescent Literature.

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  RED 7980 - Dissertation Research Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present to the dissertation committee, and defend the final research submission with the dissertation committee.

Internship
6 Total Credits

- Earn at least 6 credits from the following:
  - RED7947 - Internship in Reading Education (3)

Candidacy
0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 grade point average on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours: - Completion of all course work, except for dissertation hours. - Successful completion of the candidacy examination. - Successful defense of the written dissertation proposal. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Submission of an approved program of study.

Candidacy Examinations
0 Total Credits

- All PhD candidates will be required to complete two examinations. - Research in the Specialization—8-hour written examination. - Specialization—3-hour oral examination.

Grand Total Credits: 69
Track Details

Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar 3 Credit Hours

Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
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- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)

Independent Learning

The dissertations fulfills the independent learning requirement.

Financial Information

Financial Information

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Education PhD - Education PhD, Science Education Track

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Track Website

https://ccie.ucf.edu/teachered/secondaryed/
Track Contact Information

Malcolm Butler PhD
Associate Professor
malcolm.butler@ucf.edu
Telephone: 407-823-3272
ED 322-T

Is this track available 100% online?
No

Track Description

This program has temporarily suspended admission effective Fall 2020.

This Science Education track in the Education PhD program is designed to prepare science educators for various career options, including training science teachers, teaching postsecondary science, and conducting research in science education.

Doctoral students in this track engage in research activities with an interdisciplinary faculty, experience internships, and interact with the nationally acclaimed Lockheed Martin/UCF Teaching Academy for Mathematics and Science.

Track Prerequisites

A master's degree in a closely related field.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

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ETS PPI: 5233
Degree Requirements

Required Courses
42 Total Credits

Details

Core
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)
  - IDS 7502 - Case Studies in Research Design may be substituted for one of the approved research electives from group A listed in the Program Details section below. EDF 7406 - Multivariate Statistics in Education may be substituted for one of the approved research electives from group B listed in the Program Details section below.

Specialization
18 Total Credits

- Complete the following:
  - SCE7746 - Teaching Theory and Research in Science Education (3)
  - SCE7145 - Design of Post Secondary Science Curriculum (3)
  - SCE7242 - Assessment in Science Teaching, Learning and Research (3)
  - SCE7864 - Science Technology and Society (3)
  - SCE7935 - Seminar–Professional Writing/Grants in Science Education (3)
  - SCE7146 - Professional Issues in Science Education (3)

Electives
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - Additional specialization electives

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - SCE 7980 - Doctoral Dissertation Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Internship
6 Total Credits

- Earn at least 6 credits from the following:
  - SCE7942 - Internship/Practicum in Science Education (3)

Candidacy
0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours: - Completion of all course work, except for dissertation hours. - Successful completion of the candidacy examination. - Successful defense of the written dissertation proposal. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Submission of an approved program of study.

Candidacy Examinations
0 Total Credits

- All PhD candidates will be required to complete two examinations. Please note that there may be variations in length of exam time and content based on the respective requirements of each track. - Research in the Specialization—8-hour written examination. - Specialization—3-hour oral examination.

Grand Total Credits: 66
Track Details

Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)

- EDF 7406 - Multivariate Statistics in Education 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar 3 Credit Hours

Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)

- IDS 7938 - Research Cluster Seminar 3 Credit Hours
- EDF 7405 - Quantitative Methods II 3 Credit Hours
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education 3 Credit Hours
- EDF 7415 - Latent Variable Modeling In Education 3 Credit Hours
- EDF 7473 - Ethnography in Educational Settings 3 Credit Hours
- EDF 7474 - Multilevel Data Analysis In Education 3 Credit Hours
- EDF 7488 - Monte Carlo Simulation Research in Education 3 Credit Hours
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders 3 Credit Hours (Communication Sciences Track students only)

Independent Learning

The dissertation serves as the independent learning experience.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Education PhD - Education PhD, Social Science Education Track

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Track Website

https://ccie.ucf.edu/teachered/secondaryed/
**Track Contact Information**

William Russell PhD  
Associate Professor  
russell@ucf.edu  
Telephone: 407-823-4345  
Education 115J

**Is this track available 100% online?**

No

**Track Description**

*This program has temporarily suspended admission effective Fall 2020.*

The Social Science Education track in the Education PhD program is designed to prepare social science educators for successful careers in research and teaching.

The program assists students in providing options to careers in preparing social science teachers, teaching post-secondary social science (history, political science, economics, etc.), and conducting research activities in social science education. Doctoral students in the track engage in research activities with an interdisciplinary faculty, experience internships, and interact with various social science educators and social science experts. Throughout this program, students are mentored by experienced and successful university social science education faculty. Based on the students' previous graduate course work, students may be required to complete additional graduate social science education (SSE) courses and/or graduate content courses beyond the minimum requirements.

The Social Science Education track in the Education PhD program requires a minimum of 60 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 18 credit hours of specialization courses, 3 credit hours of internship, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

**Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree**

**Track Prerequisites**

A master's degree in a closely related field.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master’s degree in a closely related field.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement / letter of intent.
- Resumé / vita reflecting relevant experience.
- Writing sample.

Eligibility for admission to a doctoral program should be limited to superior students who have demonstrated intellectual ability, high achievement, and adequate preparation for advanced study and research in a chosen field.

**Application Deadlines Notes**

*This program has temporarily suspended admission effective Fall 2020.*

**Graduate School Contact**

Brandon Ruff  
gradmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

2021-2022 Graduate Catalog
Degree Requirements

Required Courses
42 Total Credits

Details

Core
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)

- IDS 7502 - Case Studies in Research Design may be substituted for one of the approved research electives from group A listed in the Program Details section below. EDF 7406 - Multivariate Statistics in Education may be substituted for one of the approved research electives from group B listed in the Program Details section below.

Specialization
18 Total Credits

- Complete all of the following
  - Complete the following:
    - SSE7740 - History of Social Studies Education (3)
    - SSE7796 - Research in Social Science Education Seminar (3)
    - SSE7797 - Content and Program Analysis in Social Science Education (3)
    - SSE7700 - Critical Issues in Social Studies Teacher Education (3)
  - Earn at least 6 credits from the following types of courses:
    - Social Science Education (SSE) Electives 6 Credit Hours; must be approved by adviser

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - SSE 7980 - Dissertation Research Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Internship
3 Total Credits

- Complete the following:
  - SSE7947 - Internship in Social Science Education (3)

Candidacy
0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours:
  - Completion of all course work, except for dissertation hours.
  - Successful completion of the candidacy examination.
  - Successful defense of the written dissertation proposal.
  - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
  - Submission of an approved program of study.

Candidacy Examinations
0 Total Credits

- All PhD candidates will be required to complete two examinations. Please note there may be variations in length of exam time and content based upon the respective requirements of each track.
  - Research in the Specialization—8-hour written examination.
  - Specialization—3-hour oral examination.
**Track Details**

**Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)**

- EDF 7406 - Multivariate Statistics in Education *3 Credit Hours*
- EDF 7405 - Quantitative Methods II *3 Credit Hours*
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education *3 Credit Hours*
- EDF 7415 - Latent Variable Modeling In Education *3 Credit Hours*
- EDF 7473 - Ethnography in Educational Settings *3 Credit Hours*
- EDF 7474 - Multilevel Data Analysis In Education *3 Credit Hours*
- EDF 7488 - Monte Carlo Simulation Research in Education *3 Credit Hours*
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders *3 Credit Hours* (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar *3 Credit Hours*

**Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)**

- IDS 7938 - Research Cluster Seminar *3 Credit Hours*
- EDF 7405 - Quantitative Methods II *3 Credit Hours*
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education *3 Credit Hours*
- EDF 7415 - Latent Variable Modeling In Education *3 Credit Hours*
- EDF 7473 - Ethnography in Educational Settings *3 Credit Hours*
- EDF 7474 - Multilevel Data Analysis In Education *3 Credit Hours*
- EDF 7488 - Monte Carlo Simulation Research in Education *3 Credit Hours*
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders *3 Credit Hours* (Communication Sciences Track students only)

**Independent Learning**

The dissertation fulfills the independent learning requirement.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu  
http://finaid.ucf.edu

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**Grad Fellowships**

Telephone: 407-823-0127  
gradfellowship@ucf.edu  
https://funding.graduate.ucf.edu

**Education PhD - Education PhD, Teaching English to Speakers of Other Languages Track**

**College**

College of Community Innovation and Education

**Track Website**

https://ccie.ucf.edu/teachered/secondaryed/
Track Contact Information

Joyce Nutta PhD
Professor
joyce.nutta@ucf.edu
Telephone: 407-823-5791
ED 122M

Is this track available 100% online?
No

Track Description

The University of Central Florida is uniquely positioned to meet the critical need for advanced degrees in TESOL. Faculty from the College of Community Innovation and Education and the College of Arts and Humanities approach TESOL issues from multiple perspectives and collaborate in teaching and research.

Combining the interdisciplinary expertise of faculty in two Colleges, the PhD Track in TESOL offers students in-depth experiences in the research, theory, and practice of TESOL, as well as flexibility in selecting a complementary cognate that meets their professional goals.

The Teaching English to Speakers of Other Languages (TESOL) track in the Education PhD program requires at least 63 credit hours of study beyond the master’s degree. The curriculum includes 24 credit hours of core courses, 15 credit hours of TESOL specialization courses, 9 credit hours of cognate courses, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 63 Credit Hours Minimum beyond the Master's Degree

Track Prerequisites

A master's degree in a closely related field.

Prerequisites

- TSL 6250 - Applied Linguistics in ESOL 3 Credit Hours
- TSL 6440 - Assessment Issues in TESOL 3 Credit Hours
- TSL 6642 - Issues in Second Language Acquisition 3 Credit Hours
- EDF 6401 - Statistics for Educational Data 3 Credit Hours
- TSL 5345 - Methods of ESOL Teaching 3 Credit Hours or TSL 5085 - Teaching Language Minority Students in K-12 Classrooms 3 Credit Hours

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation no more than one year old from people who can attest to your potential and ability for doctoral level work.
- Goal statement.
- Resume.
- A master's thesis or two original papers related to graduate coursework.

Graduate Application Deadlines

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</table>

Application Deadlines Notes

* Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
48 Total Credits

- Details

Core
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)
  - IDS 7502 - Case Studies in Research Design may be substituted for one of the approved research electives from group A listed in the Program Details section below. EDF 7406 - Multivariate Statistics in Education may be substituted for one of the approved research electives from group B listed in the Program Details section below.

Specialization
15 Total Credits

- Complete the following:
  - TSL6643 - Diachronic Analysis of Second Language Acquisition Processes (3)
  - TSL6379 - Second Language Literacy (3)
  - TSL6600 - Second Language Vocabulary Acquisition (3)
  - TSL6252 - Sociolinguistics for ESOL (3)
  - TSL7006 - Second Language Teacher Preparation (3)

Cognate
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  - A minimum of 9 credit hours of cognate courses must be approved by the adviser and graduate program director. Possible cognates include Communication Sciences and Disorders, Community College Teaching, Exceptional Education, Global and Comparative Education, Multicultural Education, Instructional Technology, Program Administration, Reading, and other related areas.

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - TSL 7980 - Dissertation Research Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Examinations
0 Total Credits
A qualifying examination will be required during the first year of study as an intake, diagnostic tool to determine student proficiency in TESOL. A written candidacy examination will be required to be admitted to candidacy and will normally occur at the completion of course work.

**Candidacy**

0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours: - Completion of all course work, except for dissertation hours. - Successful completion of the candidacy examination. - Successful defense of the written dissertation proposal. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Submission of an approved program of study.

**Additional Program Requirement**

0 Total Credits

- Students must have completed a minimum of two college-level courses in a foreign language or basic proficiency in a foreign language as measured by the American Council on the Teaching of Foreign Languages (ACTFL) oral proficiency interview (OPI) or other assessment approved by the program faculty before completion of 36 hours of study. Non-native speakers of English may use their native language to meet this requirement. This requirement may be satisfied prior to admission but must be satisfied prior to candidacy.

Grand Total Credits: 63

**Track Details**

**Group A (Course below may be taken in place of IDS 7502 - Case Studies in Research Design in fulfilling CORE requirement above)**

- EDF 7406 - Multivariate Statistics in Education **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours** (Communication Sciences Track students only)
- IDS 7938 - Research Cluster Seminar **3 Credit Hours**

**Group B (Course below may be taken in place of EDF 7406 - Multivariate Statistics in Education in fulfilling CORE requirement above)**

- IDS 7938 - Research Cluster Seminar **3 Credit Hours**
- EDF 7405 - Quantitative Methods II **3 Credit Hours**
- EDF 7410 - Application of Nonparametric and Categorical Data Analysis in Education **3 Credit Hours**
- EDF 7415 - Latent Variable Modeling In Education **3 Credit Hours**
- EDF 7473 - Ethnography in Educational Settings **3 Credit Hours**
- EDF 7474 - Multilevel Data Analysis In Education **3 Credit Hours**
- EDF 7488 - Monte Carlo Simulation Research in Education **3 Credit Hours**
- SPA 7495 - Doctoral Seminar II: Spoken and Written Language Disorders **3 Credit Hours** (Communication Sciences Track students only)

**Independent Learning**

The dissertation satisfies the independent learning experience.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Appointment Line: 407-823-5285  
Fax: 407-823-5241  
finaid@ucf.edu  
http://finaid.ucf.edu
Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Education Undecided or Certification

College
College of Community Innovation and Education

Department
College of Community Innovation and Education Dean's Office

Program Website
https://ccie.ucf.edu/

Program Contact Information
Graduate Affairs Office
cciegrad@ucf.edu
Telephone: 407-823-5369
ED 115

Is this program available 100% online?
No

Program Description

The Education Undecided/Certification program is for students who have completed at least a baccalaureate degree from an accredited institution recognized by UCF in the United States and are not seeking a graduate degree. Students in this status may be interested in taking graduate courses for personal or professional enhancement or to prepare for possible admission to a graduate degree-seeking or certificate program in the College of Community Innovation and Education at UCF.

Not all graduate degree programs in the UCF College of Community Innovation and Education allow students in this status to enroll in their courses. It is best to contact the program director for the graduate program that offers the course prior to applying. If eligible, students in this status may take only 5000- or 6000-level courses (unless seeking certification).

Admission into Education Undecided/Certification status does not guarantee admission to a graduate degree-seeking or certificate program at UCF. International students are not eligible for this status unless they hold an eligible visa. International students taking online courses from their home country are eligible to be nondegree seeking since they do not require a visa.

Please Note: In general, Education Undecided/Certification students are not eligible for financial aid, assistantships, or fellowships, although it is best to check with the Office of Student Financial Assistance for specific details. Nondegree-seeking students must be enrolled in 12 credit hours or more to be considered in full-time status.

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to completing the online application, Education Undecided/Certification applicants will need to submit official, final transcripts from a regionally accredited institution showing a conferred bachelor's degree.

Education Undecided/Certification students will also be required to submit an Immunization Form prior to enrollment. Although this form is not used in the admission process, students will not be allowed to enroll at UCF without submitting the required Immunization Form.
**Graduate Application Deadlines**

<table>
<thead>
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<th>Education Undecided or Certification</th>
<th>Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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<tr>
<td>Domestic Applicants</td>
<td>Jul 1</td>
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<tr>
<td>International Applicants</td>
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</table>

**Graduate School Contact**

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

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**Educational Leadership EdD**

**College**

College of Community Innovation and Education

**Department**

Department of Educational Leadership & Higher Education

**Program Website**

https://ccie.ucf.edu/elhe/educational-leadership/

**Program Contact Information**

Graduate Affairs Office, CCIE  
cciegrad@ucf.edu  
Telephone: 407-823-5369  
ED 115

**Is this program available 100% online?**

No
Program Description

The Educational Leadership EdD program is designed to prepare educators for leadership positions at all levels of educational administration from PK-12 to higher education, as well as leadership positions in various educational agencies or organizations. As well, the program prepares students for positions in teaching and research. As a professional program, studies are flexible and diverse, allowing for individual needs to be met. While a thorough knowledge of the field of educational leadership is expected of all doctoral students, individuals will also gain expertise in at least one area of specialization. Specialization knowledge is obtained through course work, independent and directed studies, research, and field experiences. Educational Leadership doctoral programs are designed to broaden administrative knowledge and skills of practicing professionals.

The Higher Education track is appropriate for students who are committed to advancing their leadership capabilities in college and university settings. The Program of Study has been designed to broaden the administrative knowledge and skills of higher education professionals who bring to the program a prior discipline specialization. Students admitted to the program are typically employed in teaching, research and administrative positions in universities, colleges, community colleges and education related institutions and organizations. The Higher Education track requires completion of a dissertation.

The Executive track in Educational Leadership EdD. The Executive EdD is appropriate for students who are committed to advancing their leadership opportunities and capabilities in PK-12 and other organizational settings. Students admitted to the program are typically employed in teaching and administrative positions in elementary and secondary schools, as well as other educational agencies and organizations. Focus areas include: political and organizational theory, leadership, systems theory, planning and evaluation, school law and finance, data-based decision making, communications, instructional leadership, human resource management, program analysis and evaluation. Educational Leadership certification is not included in this program.

The program is taught in a lock-step cohort-based format to be convenient to those who are working in teaching and administrative positions. The Executive track requires completion of a client-based field study. Please scroll to the bottom of this page for further details on these tracks.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted and processed by the established deadline. Only complete applications will be considered.

Applicants must choose a track in this program. Track(s) may have different requirements.

Graduate School Contact

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gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
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Millican Hall 230
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Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Educational Leadership EdD - Educational Leadership EdD, Executive Track

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Track Website
https://ccie.ucf.edu/elhe/educational-leadership/

Track Handbook
Educational Leadership EdD, Executive Track

Track Contact Information
Larry J. Walker, EdD
Assistant Professor
Larry.Walker2@ucf.edu
ED 222

Is this track available 100% online?
No

Track Description
The Executive track in the Educational Leadership EdD program is designed to prepare educators for leadership positions in PK-12 organizations and other educational organizations. The program prepares students for professional practice as scholarly practitioners.

The Executive EdD is appropriate for students who are committed to advancing their leadership opportunities and capabilities in PK-12 and other organizational settings. Students admitted to the program are typically employed in teaching and administrative positions in elementary and secondary schools, as well as other educational agencies and organizations. Focus areas include: political and organizational theory, leadership, systems theory, planning and evaluation, school law and finance, data-based decision making, communications, instructional leadership, human resource management, program analysis and evaluation. Educational Leadership certification is not included in this program.

The Executive track requires a minimum of 54 credit hours beyond the master's degree, including 6 credit hours of a client-based Doctoral Field Study and at least 15 credit hours of Dissertation in Practice. The plan of study for the Executive track in the Educational Leadership EdD is arranged as a lock-step cohort-based program to facilitate scheduling for those who are employed in teaching and administrative positions. Details about this program are found in the Executive Handbook.

Total Credit Hours Required: 54 Credit Hours Minimum beyond the Master's Degree

Track Prerequisites
Master's degree in a closely related field.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted and processed by the established deadline. Only completed applications by the deadline will be considered.

In addition to the general UCF graduate application requirements applicants to this program must provide:

- One official transcript (sent electronically or in a sealed envelope) from each college/university attended.
- Master's degree in a closely related field.
- Official, competitive GRE score, taken within the last five years.
- Three letters of recommendation.
- Resume.
- Goal statement.

Admission to the program is once per year, fall term only, with students paced in a cohort sequence.

Graduate Application Deadlines

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<th>*Fall Priority</th>
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</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

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gradadmissions@ucf.edu
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Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
33 Total Credits

- Details

Core
24 Total Credits

- Complete the following:
  - EDA7101 - Organizational Theory in Education (3)
  - EDA7192 - Educational Leadership (3)
  - EDA7195 - Politics, Governance, and Financing of Educational Organizations (3)
  - EDA7205 - Planning, Research, and Evaluation Systems in Educational Administration (3)
  - EDA7225 - Advanced Legal Studies in Education (3)
  - EDA7215 - Community Outreach for Educational Leaders (3)
  - EDA7193 - Instructional Leadership (3)
  - EDA7224 - Human Resource Development in Educational Organizations (3)

Research Methods
9 Total Credits

- Complete the following:
  - EDF7471 - Research in Educational Leadership I (3)
  - EDF7407 - Research in Educational Leadership 2 (3)
  - EDF7408 - Research in Educational Leadership 3 (3)

Doctoral Field Study
6 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - EDA7943 - Field Project in Educational Leadership (3 - 6)
  - Doctoral students will conduct a dissertation in practice on an issue or problem of practice during the last four semesters of the program. The proposal is developed during the first 3 semester hours of EDA 7943 and implemented during the second semester.

Dissertation in Practice
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - EDA 7987 - Dissertation in Practice In EDA 7987 - Dissertation in Practice students conduct scholarly research on a complex problem of practice in an education organization. The dissertation in practice will have an introduction, literature review, methodology, findings, and discussion and conclusions.

Candidacy
0 Total Credits

- To enter candidacy for the Executive track in the Educational Leadership EdD program, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required milestones. The following are required to be admitted to candidacy:
  - Completion of an on-demand writing white paper (Milestone #1) to be completed prior to summer semester Year 1.
  - Completion of a dissertation in practice proposal (Milestone #2) accepted during the summer semester of Year 2.
  - Completion of all course work, except for the Doctoral Field Study.
  - Submission of an approved program of study.

Grand Total Credits: 54

Track Details

Independent Learning

The doctoral field study provides an independent learning experience by having students conduct a study on an issue or problem of practice in education.
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Educational Leadership EdD - Educational Leadership EdD, Higher Education Track

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Track Website
https://ccie.ucf.edu/elhe/higher-education/

Track Handbook
Educational Leadership EdD, Higher Education Track

Track Contact Information

Thomas Cox EdD
Associate Professor
thomas.cox@ucf.edu
ED 315

Is this track available 100% online?
No

Track Description
The Higher Education track in the Educational Leadership EdD program is appropriate for students who are committed to advancing their leadership capabilities in college and university settings.

The Higher Education track in the Educational Leadership EdD program has been designed to broaden the administrative knowledge and skills of higher education professionals who bring to the program a prior discipline specialization. Students admitted to the program are typically employed in teaching, research and administrative positions in community colleges and universities or education related agencies.

Students pursuing the Higher Education track in the Educational Leadership EdD program are typically employed in two- or four-year colleges or universities. Their programs of study require them to complete a minimum of 36 credit hours of specified core and specialization courses plus two elective courses. Students must also complete 12 credit hours in research methods and 15 credit hours of dissertation. The 63 minimum credit hours is required beyond the master's degree, with an emphasis related to the study of higher education as a field of inquiry. Details about the administration of this program can be found in the Higher Education Handbook.

Total Credit Hours Required: 63 Credit Hours Minimum beyond the Master's Degree
Track Prerequisites

Master's degree from a regionally accredited institution.

Evidence of a minimum of one year full-time or two years part-time professional higher education work experience.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Minimum GPA of 3.0 (on 4.0 scale) in the last 60 credit hours of undergraduate degree.
- Master's degree from a regionally accredited institution.
- Minimum GPA of 3.0 (on 4.0 scale) for all graduate work at the time of application.
- Official, competitive GRE score, taken within the last five years.
- Three letters of recommendation (electronic or hard copy).
- Resumé/CV.
- Goal statement. (Describe the following: preparedness for the program, career goals related to the program, and potential area of research interest in the program.)
- Evidence of a minimum of one year full-time or two years part-time professional higher education work experience. Evidence may include, but not be limited to, any one of the following: work experience listed on the resume/CV with confirmation email/telephone, letter of reference, or copies of annual reviews, etc. (Please note that graduate assistantships, teaching assistantships, internships and practica do not fulfill this requirement.)
- An interview might be required.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
30 Total Credits

Details

Core
18 Total Credits

Complete the following:
- EDH7040 - Research on the College Student (3)
- EDH7401 - Higher Education and Public Policy (3)
- EDH7631 - Managing change, conflict, and stability in Higher Education (3)
- EDH7934 - Higher Ed Literature, Research, and Professional Writing Seminar (3)
- EDH7665 - Higher Education Leadership (3)
- EDH7046 - Diversity Issues in Higher Education (3)

Specialization
12 Total Credits
- Complete the following:
  - EDH7405 - Legal Issues in Higher Education (3)
  - EDH7066 - Higher Education: Philosophical/Historical Perspectives (3)
  - EDH7508 - Finance in Higher Education (3)
  - EDH7636 - Organizational Theory and Practices in Higher Education (3)

Research Methods
12 Total Credits
- Complete all of the following
  - Complete the following:
    - EDF6401 - Statistics for Educational Data (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7475 - Qualitative Research in Education (3)
  - Complete at least 1 of the following:
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - EDF7405 - Quantitative Methods II (3)
    - EDF7406 - Multivariate Statistics in Education (3)
    - EDF7410 - Application of Nonparametric and Categorical Data Analysis in Education (3)
    - EDF7415 - Latent Variable Modeling In Education (3)
    - EDF7473 - Ethnography in Educational Settings (3)
    - EDF7474 - Multilevel Data Analysis In Education (3)
    - EDF7479 - Applications of Technology in Qualitative Research: Data, Organization, and Analysis (3)
    - EDF7488 - Monte Carlo Simulation Research in Education (3)
    - EDF7483 - Mixed Methods Research in Education (3)

Elective Courses
6 Total Credits
- Complete at least 2 of the following:
  - EDH6047 - Theories of College Student Development (3)
  - EDH6105 - Retention Strategies in Colleges and Universities (3)
  - EDH7366 - Assessment Practices in Higher Education (3)
  - Course Not Found
  - EDH7638 - Advanced Seminar in Higher Education (3)
  - EDH7638 - Advanced Seminar in Higher Education (3)
  - EDH7207 - Curriculum, Instruction, and Distance Learning in Higher Education (3)

Candidacy Examination
0 Total Credits
- Candidacy examinations will be scheduled near the tenth week of the fall and spring semesters; summer exams will not be offered. The exams are:
  - Part 1. Written examination (submitted via webcourses)
  - Part 2. Oral examination
  - Evidence of the following are required to complete the doctoral comprehensive examination in the Educational Leadership EdD program, Higher Education track:
    - Currently enrolled in the university during the semester any comprehensive examination is taken.
    - Submission of an approved program of study (overall GPA 3.0 or greater on all graduate work).
    - Completion of most course work. (Students may only take exams when only 2-3 semesters of course work remain. This statement does not refer to dissertation hours.)
    - In consultation with program faculty, the dissertation advisory committee is formed, paperwork filed, and approved. (Committee consists of four members: a minimum of three approved CCIE graduate faculty and one approved graduate faculty scholar or CCIE faculty.)
    - Submission of an approved doctoral comprehensive examination application by the stated deadline.
    - Fulfill any program deadlines for submitting comprehensive examination content-related materials (topics, questions, etc.) to the program coordinator by the stated deadline. (See program website for details: https://ccie.ucf.edu/elhe/higher-education/)

Candidacy
0 Total Credits
- Candidacy is the stage of doctoral studies when students focus exclusively on planning, researching and writing their proposal and dissertation. To enter candidacy for the Educational Leadership EdD program, Higher Education track, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. In addition, evidence of the following are required to be admitted to candidacy and enroll in dissertation hours:
  - Successful completion of all parts of the candidacy examination.
  - In consultation with program faculty, the dissertation advisory committee is formed, paperwork filed, and approved. (Committee consists of four members: a minimum of three approved CCIE graduate faculty and one approved graduate faculty scholar or CCIE faculty.)
  - Once students enter Candidacy, they must enroll in a minimum of three dissertation
hours (EDH 7980) every semester (including summers), until they graduate from the program.

**Dissertation**

- Earn at least 15 credits from the following types of courses:
  - EDH 7980 - Dissertation Registration for dissertation hours is not permitted until the student is admitted to Candidacy. Doctoral students must work with their doctoral adviser/major professor to prepare a proposal and present and defend the proposal to the dissertation committee. Once the proposal is completed and approval is secured from the UCF Institutional Review Board (IRB), students conduct research and submit and defend the final research dissertation to their dissertation committee. Required Documentation During Dissertation Stage: All items listed are necessary to fulfill the requirements to graduate. - Application to Defend Dissertation Proposal - Dissertation Proposal Approval - Application for IRB Approval of Research - Defense Dissertation Announcement - Dissertation Approval - Application to Graduate - All necessary requirements of the College of Graduate Studies for graduation

Grand Total Credits: **63**

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**
Milkcan Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

**Educational Leadership EdS**

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Program Website**
https://ccie.ucf.edu/elhe/educational-leadership/

**Program Handbook**
Educational Leadership EdS

**Program Contact Information**
Daniel Eadens, EdD
Daniel.Eadens@ucf.edu
Telephone: 407-823-4751
ED 220-E

**Is this program available 100% online?**
No

2021-2022 Graduate Catalog
Licensure Disclosure

The Educational Leadership EdS program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Educational-Leadership-EdS.pdf.

Program Description

The Education Specialist in Educational Leadership program is designed for those currently employed in or interested in decision-making positions in educational organizations.

The program is an advanced professional degree designed specifically for individuals who have completed a master's degree in a field other than Educational Leadership and who wish to meet the requirements for Florida Level 1 Educational Leadership Certification while working toward a degree.

Students who complete an EdS in Educational Leadership may apply for admission to the doctoral program. The EdS program requires a research report at the completion of studies.

The Educational Leadership EdS program requires a minimum of 36 credit hours beyond the master's degree. Students must complete EDA 6909 Research Report at the completion of their study, as well as successfully complete EDA 6946 - Internship by earning at least a grade of "B."

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Master's Degree

Program Prerequisites

A master's degree in a related field of study.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a related field of study.
- Official, competitive GRE score taken within the last five years.
- Resumé.
- Three letters of recommendation.

Admission to the EdS in Educational Leadership program is separate from admission to the doctoral program. EdS graduates may apply for admission to the doctoral program.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core
9 Total Credits

- Complete all of the following
  - Complete the following:
    - EDA7101 - Organizational Theory in Education (3)
  - Earn at least 3 credits from the following:
    - EDA6946 - Internship (1 - 99)
  - Earn at least 3 credits from the following:
    - EDA6909 - Research Report (1 - 99)

Specialization
21 Total Credits

- Complete the following:
  - EDA6061 - Organization and Administration of Schools (3)
  - EDA6232 - Legal Aspects of School Operation (3)
  - EDA6240 - Educational Financial Affairs (3)
  - EDA6260 - Educational Systems Planning and Management (3)
  - EDA6931 - Contemporary Issues in Educational Leadership (3)
  - EDS6123 - Educational Supervisory Practices I (3)
  - EDS6130 - Educational Supervisory Practices II (3)

Co-requisite/Elective Courses
6 Total Credits

- Complete 1 of the following
  - Complete the following:
    - EDF6401 - Statistics for Educational Data (3)
    - EDF6481 - Fundamentals of Graduate Research in Education (3)
  - Earn at least 6 credits from the following types of courses:
    - Additional Electives as approved by adviser if student have already completed EDF 6401 and EDF 6481 as part of the Master's Degree.

Grand Total Credits: 36

Program Details

EDA 7101 will be taken the last fall semester of enrollment prior to graduation; enrollment requires instructor permission.

Additional Program Requirements

Educational leadership majors must successfully complete:

- 3 credit hour EDA 6946 Administrative Internship (should be taken within the last two semesters of enrollment)
- Pass all sections of the Florida Educational Leadership Examination and receive scores in time for graduation.

Independent Learning

Students must complete a research report at the conclusion of their studies.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships
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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Educational Leadership MEd

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Program Website
https://ccie.ucf.edu/elhe/educational-leadership/

Program Handbook
Educational Leadership MEd

Program Contact Information
Daniel Eadens, EdD
Daniel.Eadens@ucf.edu
Telephone: 407-823-4751
ED 220-E

Is this program available 100% online?
No

Licensure Disclosure
This Educational Leadership MEd program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Educational-Leadership-MEd.pdf.

Program Description
The Master of Education in Educational Leadership program is intended for those who wish to work in leadership positions and administrative careers in education. The MEd program provides a theoretical and conceptual knowledge base and practical application required for principalship and for Florida Level I Educational Leadership certification.

Courses required in the program address the Florida Educational Leadership Standards and the Florida Educational Leadership Examination (FELE) competencies and indicators.

The Educational Leadership MEd program requires a minimum of 36 credit hours beyond the bachelor's degree, including 30 credit hours of core courses and 6 credit hours of required administrative internship. Courses may be taken in any sequence with the exception of EDA 6946, which must be taken during the last two semesters.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- A letter of recommendation from a principal or other administrator addressing your potential lead and instructional expertise.
- Last 3 years of effective or highly effective teaching evaluations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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Application Deadlines Notes

* Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Core (Recommended that students take these courses in the following sequence:)
30 Total Credits

- Complete the following:
  - EDA6061 - Organization and Administration of Schools (3)
  - EDA6232 - Legal Aspects of School Operation (3)
  - EDA6240 - Educational Financial Affairs (3)
  - EDA6260 - Educational Systems Planning and Management (3)
  - EDA6931 - Contemporary Issues in Educational Leadership (3)
  - EDA6423 - Data-Based Decision Making for School Educational Leaders (3)
  - EDS6123 - Educational Supervisory Practices I (3)
  - EDS6130 - Educational Supervisory Practices II (3)
  - EDA6300 - Community School Administration (3)
  - EDA6502 - Organization and Administration of Instructional Programs (3)

Internship
6 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - EDA6946 - Internship (1 - 99)
- The internship should be completed during or after the last two semesters of coursework listed above.

Grand Total Credits: 36

Program Details

The MEd program provides the theoretical and conceptual knowledge base with practical application required for the principalship and for Florida Level I Educational Leadership certification. Courses required in the program address the Florida Educational Leadership Standards and Florida Educational Leadership Examination (FELE) competencies and indicators required by the Florida Department of Education. Students are required to pass the FELE for graduation. An MEd in Educational Leadership or its equivalent, and successful completion of the FELE are required by the state of Florida for Level 1 Educational Leadership certification (Certification is subject to Florida Department of Education approval).

The MEd program requires an administrative internship. The internship is an independent learning activity that takes place in a regular K-12 public school setting in which students must apply, reflect on, and refine knowledge and skills acquired in the program. For more information concerning the Educational Leadership internship, please refer to the Educational Leadership website at: education.ucf.edu/edleadership (click on Guide to the Administrative Internship).

MEd students in Educational Leadership will document the experience with each of the Florida Principal Leadership Standards (FPLS) and Florida Educational Leadership Exam (FELE) competencies during the EDA 6946 Administrative Internship. This documentation and successful completion of the administrative internship (grade of A or B) will serve as the culminating experience required for graduation.

Modified Leadership Core Program for Those with Graduate Degrees in Other Disciplines

If an individual holds a graduate degree with a major other than Educational Administration, Administration, Supervision or Educational Leadership, certification may be obtained through completion of an approved modified program in Educational Leadership. The UCF modified program consists of the seven core courses and Administrative Internship course of the Educational Leadership MEd degree. Request an evaluation of prior graduate course work (required for admission into the program) on the following website: education.ucf.edu/edleadership/.

Additional Program Requirements

- Complete the Administrative Graduate Internship with a minimum grade of B.
- Pass all applicable sections of the Florida Educational Leadership Examination.

Equipment Fee

Students in the Educational Leadership MEd program pay a $32 equipment fee each semester that they are enrolled. Part-time students pay $16 per semester.

Independent Learning

The MEd program requires an administrative internship. The administrative internship is an independent learning activity that takes place in a regular K-12 public school setting in which students must apply, reflect on, and refine knowledge and skills acquired in the program. For more information concerning the Educational Leadership internship, please refer to the Educational Leadership website at: http://education.ucf.edu/edleadership (click on Internship Guide).
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Educational Leadership MA

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Program Handbook
Educational Leadership MA

Program Contact Information
Daniel Eadens, EdD
Daniel.Eadens@ucf.edu
Telephone: 407-823-4751
ED 220-E

Is this program available 100% online?
Yes

UCF Online

Please note: Educational Leadership, MA may be completed fully online although not all associated tracks, elective options, or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

The online Master of Arts in Educational Leadership program is not a state-approved program for certification in Florida. The program is designed to prepare students for administrative and leadership positions in school settings and other education-related fields that specifically do NOT require Florida certification. Some examples include administrative positions outside of Florida, around the nation and world, a private school headmaster, charter school administrator, community college or university staff administrator, or museum administrator.

The Educational Leadership MA also offers two tracks focused on higher education: Higher Education/Student Personnel and College Teaching and Leadership, both of which have different admission, enrollment, and graduation requirements.

The Higher Education/College Teaching and Leadership track is designed for individuals whose goal is to teach at the community college level.

The Higher Education/Student Personnel track is designed to prepare students for leadership positions in a variety of student personnel/affairs departments on college and university campuses and education-related fields. Note, these programs have different admission, enrollment, and graduation requirements.

Please scroll to the bottom of this page for further details on these Tracks.

The Educational Leadership MA program requires a minimum of 30 credit hours beyond the bachelor's degree, including 9 credit hours of research and measurement courses and 21 credit hours of administration courses. The courses may be taken in any order the student wishes but the culminating Research Report (EDA 6909) must be taken last. For student convenience and planning, at least two administration courses are projected to be offered each semester and the EDF courses offered each semester.

Students enrolled in the Florida state-approved MEd, EdS, or Modified Core programs in educational leadership may not take these online courses for credit unless approved by their educational leadership faculty adviser.

The MA program does not fulfill Florida certification requirements.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Applicants may apply to the online MA in Educational Leadership or one of the two tracks offered within the MA in Higher Education. The higher education track programs are not online programs and may have different requirements.

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Resume/CV
- 1 Letter of Recommendation
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Educational Leadership MA</th>
<th>*Fall Priority</th>
<th>Fall</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Research and Measurement
9 Total Credits

- Complete all of the following
  - Complete the following:
    - EDF6481 - Fundamentals of Graduate Research in Education (3)
  - Complete at least 1 of the following:
    - EDF6401 - Statistics for Educational Data (3)
    - EDF6432 - Measurement and Evaluation in Education (3)
  - Earn at least 3 credits from the following:
    - EDA6909 - Research Report (1 - 99)

Administration
21 Total Credits

- Complete the following:
  - EDA6062 - Leadership in Educational Organizations (3)
  - EDA6228 - Human Resource Processes in Education (3)
  - EDA6234 - Personnel and Education Related Law (3)
  - EDA6246 - Basic Education Funding and Management (3)
  - EDA6275 - Digital Leadership and Systems Management (3)
  - EDA6303 - Organizations and the Community (3)
  - EDA6932 - Issues in Education (3)

Grand Total Credits: 30

Program Details

Independent Learning

Students are required to successfully complete the EDA 6909 Research Report. For more information, contact the graduate program coordinator.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Educational Leadership MA - Educational Leadership MA, Higher Education/College Teaching and Leadership Track

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Track Website
https://ccie.ucf.edu/elhe/higher-education/

Track Contact Information
Thomas Cox EdD
thomas.cox@ucf.edu
ED 315Q

Is this track available 100% online?
No

Track Description

The Higher Education/College Teaching and Leadership track in the Educational Leadership MA program is designed for individuals planning to teach at that level and neither requires state teacher certification for admission nor prepares candidates for state teacher certification.

The program considers new applicants during fall and spring semesters only; passing a comprehensive exam at the end of the program is a graduation requirement.

The Higher Education/College Teaching and Leadership track in the Educational Leadership MA program is designed for individuals whose goal is to teach at the community college level. Every attempt is made to build the minimum required 18 hours of graduate-level content area courses into the program of study. Only six hours of independent study courses may be used to satisfy degree requirements. It is important to see an adviser if courses are difficult to schedule in the content area. Students electing this track will not meet state requirements for teacher certification in grades K-12. Successfully passing a comprehensive exam at the end of the program is a final graduation requirement.

Total Credit Hours Required: 42 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- A 5 – 10 page scholarly or professional writing sample (preferably an undergraduate academic paper).
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
24 Total Credits

- Complete all of the following
  - Students in this track should consult with the Higher Education/College Teaching and Leadership adviser regarding core requirements prior to registering for core courses.
  - Complete the following:
    - EDH6053 - The Community College in America (3)
    - EDH6081 - Contemporary Issues in Colleges (3)
    - EDH6204 - Leadership in College Organizations (3)
    - EDH6215 - The College Curriculum (3)
    - EDH6305 - Teaching and Learning in Colleges and Universities (3)
    - EDF6481 - Fundamentals of Graduate Research in Education (3)
    - IDS6504 - Adult Learning (3)

- Complete at least 1 of the following:
  - EDF6432 - Measurement and Evaluation in Education (3)
  - EDF6401 - Statistics for Educational Data (3)

Elective Courses
18 Total Credits

- Earn at least 18 credits from the following types of courses:
  Courses must be approved by the student's adviser in one of the following disciplines: - Art - English - English for Speakers of Other Languages (ESOL) - Math - Science - Social Science (Select one: History, Sociology, Psychology, etc.)

Grand Total Credits: 42

2021-2022 Graduate Catalog
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Educational Leadership MA - Educational Leadership MA, Higher Education/Student Personnel Track

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Track Website
https://ccie.ucf.edu/elhe/higher-education/

Track Contact Information
Nancy Marshall, EdD
Visiting Lecturer
Nancy.Marshall@ucf.edu
Telephone: 407-823-5369
ED 206H

Is this track available 100% online?
No

Track Description
The Higher Education/Student Personnel Track in the Educational Leadership MA program is designed to prepare students for leadership positions in student personnel administration in higher education and education-related fields.

Higher Education Professionals work in a variety of settings on college and university campuses, from financial aid, orientation, and residence life to athletics, international services, and student activities. They provide services and develop programs that affect all aspects of students' lives inside and outside of the classroom.

Given the focus of the program, this master's degree does not lead to fulfillment of K-12 teacher certification requirements.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation, with one being from a staff, administrator, or faculty at a college or university familiar with your involvement or engagement in postsecondary education.
- Resume.
- Personal statement explaining your past, present, and future involvement in events or activities related to your development in College Student Personnel.

An individual and group interview may be required. The Higher Education/Student Personnel track admits in fall term only.

All application materials must be submitted by the appropriate deadline listed below.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff  
ggradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Core
6 Total Credits
- Complete all of the following
  - Complete the following:
    - EDF6481 - Fundamentals of Graduate Research in Education (3)
  - Complete at least 1 of the following:
    - EDF6432 - Measurement and Evaluation in Education (3)
    - EDF6401 - Statistics for Educational Data (3)

Specialization
24 Total Credits
- Complete at least 8 of the following:
  - EDH6635 - Organization and Administration of Higher Education (3)
  - EDH6065 - History and Philosophy of Higher Education (3)
  - EDH6505 - Finance in Higher Education (3)
  - EDH6935 - Capstone Seminar in College Student Personnel (3)
  - EDH6047 - Theories of College Student Development (3)
  - EDH6105 - Retention Strategies in Colleges and Universities (3)
  - EDH6407 - Ethical and Legal Issues in Student Personnel (3)
  - EDH6634 - Student Personnel Services in Higher Education (3)
  - Course Not Found
  - EDH6407 - Ethical and Legal Issues in Student Personnel (3)
- Elective Courses
3 Total Credits
  - Earn at least 3 credits from the following types of courses:
    - Electives approved by adviser

Professional Field Experience
6 Total Credits
- Complete all of the following
  - Complete the following:
    - EDH6947 - Practicum in Student Personnel (3)
  - Earn at least 3 credits from the following:
    - EDH6946 - Internship (1 - 99)

Grand Total Credits: 39

Track Details

Independent Learning
Both an internship and practicum are required for completing the degree, in addition to a capstone seminar.

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu
Educational Leadership MA - Educational Leadership MA, Student Athlete Support Services Track

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Track Website**
https://ccie.ucf.edu/elhe/educational-leadership/

**Track Contact Information**
Brenda Thompson EdD
heps@ucf.edu
Telephone: 407-823-4164
Education 206E

**Is this track available 100% online?**
No

**Track Description**

**Admission to this program has been suspended effective Summer 2015.**

The Student Athlete Support Services (SASS) Track in the Educational Leadership MA program prepares student support personnel for professional career positions working in athletic departments.

The Student Athlete Support Services track in the Educational Leadership MA program requires a minimum of 39 credit hours beyond the bachelor's degree, including six credit hours of core courses, 27 credit hours of specialization, six credit hours of professional field experience, and passing a comprehensive exam at the end of studies.

The MA program does not fulfill state certification requirements.

**Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree**

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation, with one being from a staff, administrator, or faculty at a college or university familiar with your involvement or engagement in postsecondary education.
- Resumé.
- Personal statement explaining your past, present, and future involvement in events or activities related to your development in Student Athlete Support Services.

An individual and group interview may be required. The Student Athlete Support Services track admits in fall and spring terms only.

**Application Deadlines Notes**

Admission to this program has been suspended effective Summer 2015.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core
6 Total Credits
• Complete the following:
  • EDF6481 - Fundamentals of Graduate Research in Education (3)
  • EDF6432 - Measurement and Evaluation in Education (3)

Specialization
27 Total Credits
• Complete the following:
  • EDH6635 - Organization and Administration of Higher Education (3)
  • EDH6065 - History and Philosophy of Higher Education (3)
  • EDH6935 - Capstone Seminar in College Student Personnel (3)
  • EDH6407 - Ethical and Legal Issues in Student Personnel (3)
  • EDH6634 - Student Personnel Services in Higher Education (3)
  • EDH6047 - Theories of College Student Development (3)
  • EDH6655 - Athletics in the American University (3)
  • EDH6656 - Academic Success and the Student Athlete (3)
  • ADE6678 - The Socio-Historical Context of Adult Education (3)

Professional Field Experience
6 Total Credits
• Complete all of the following
  • Complete the following:
    • EDH6947 - Practicum in Student Personnel (3)
  • Earn at least 3 credits from the following:
    • EDH6946 - Internship (1 - 99)

Grand Total Credits: 39

Track Details

Independent Learning

Both an internship and practicum are required for completing the degree, in addition to a capstone seminar.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

2021-2022 Graduate Catalog
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Educational Program Evaluation Graduate Certificate

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Program Website
https://ccie.ucf.edu/lser/methodology-measurement-and-analysis/

Program Contact Information
Steven Sivo PhD
Professor
Steven.Sivo@ucf.edu
Telephone: 407-823-4147
ED 222Q

Is this program available 100% online?
No

Program Description

This certificate program is suspended effective Fall 2021

The Educational Program Evaluation graduate certificate focuses on program evaluation related to the field of education but will be broad-based enough to be useful for students from all disciplines. This program will help learners enhance their positions in the evaluation community, help them pursue careers in evaluation, and improve the general state of knowledge in program evaluation.

The graduate certificate in Educational Program Evaluation requires 15 credit hours of courses selected from a list of approved courses.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Admission is open to those with a master's degree from an accredited institution recognized by UCF

Application Requirements

Admission is open to those with a master's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines Notes

This certificate program is suspended effective Fall 2021
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits
- Complete the following:
  - EDG6285 - Evaluation of School Programs (3)
  - EDF6464 - Mixed Methods for Evaluation in Educational Settings (3)
  - EDF6931 - Seminar in Program Evaluation (3)

Elective Courses
6 Total Credits
- Complete 1 of the following
  - Data Analysis Methods
    - Complete the following:
      - EDF6401 - Statistics for Educational Data (3)
      - EDF7479 - Applications of Technology in Qualitative Research: Data, Organization, and Analysis (3)
  - Evaluation/Research Methods/Grants
    - Complete the following:
      - EDF6481 - Fundamentals of Graduate Research in Education (3)
      - SCE7935 - Seminar—Professional Writing/Grants in Science Education (3)
  - Measurement and Surveys
    - Complete the following:
      - EDF6432 - Measurement and Evaluation in Education (3)
      - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)

Grand Total Credits: 15

Program Details

All 7000 level courses must be approved by program coordinator prior to selection.

Elementary Education MEd

College
College of Community Innovation and Education

Department
School of Teacher Education

Program Website
https://ccie.ucf.edu/teachered/elementary-education/

Program Handbook
Elementary Education MEd
Program Contact Information

Lisa Brooks
Associate Lecturer
Lisa.Brooks@ucf.edu
ED 220

Is this program available 100% online?

Yes

UCF Online

Please note: Elementary Education MEd may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Elementary Education M.Ed. program is designed to meet the needs of educators focused on Grades K-6. It provides experiences in the foundations of education, an update of the student’s skills and understanding related to current research and instructional trends in basic subject matter areas, and elective choices in specific areas.

Teachers with a temporary teaching certificate, who have obtained a statement of eligibility, may be accepted into the program and may have the opportunity to include coursework required by the state of Florida to move to professional certification. However, the Elementary Education MA program is specifically designed for elementary education teaching certification. Therefore, contact the program advisor to determine which is appropriate for your circumstances.

The MEd in Elementary Education requires a minimum of 30 credit hours beyond the bachelor’s degree and offers a thesis and nonthesis option. The nonthesis option requires a research study in one or more courses. The research study and final report will focus on reviewing and analyzing contemporary research in a student’s particular specialization within the education profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area. Both options require 6 credit hours of core courses and a minimum of 15 credit hours of elective specialization courses, in addition to the 9 credit hours required in the thesis or nonthesis options. At minimum, 50 percent of the program coursework completed for the MEd must be at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor’s Degree

Program Prerequisites

A current Florida Professional Teaching Certificate in the program’s subject area. Applicants who have graduated from an accredited university or college teacher certification program in another state or country, in the appropriate subject and/or grade range, may also be admitted to the MEd program at the discretion of the program director.

OR

A Temporary Teaching Certificate, a passing score on the SAE section of the Florida Teacher Certification Examination (FTCE), and at least 1 year of successful teaching experience.
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Résumé or CV
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Additionally, applicants must provide:

- A current Florida Professional Teaching Certificate in the program’s subject area. Applicants who have graduated from an accredited university or college teacher certification program in another state or country, in the appropriate subject and/or grade range, may also be admitted to the MEd program at the discretion of the program director.

**OR**

- A Temporary Teaching Certificate, a passing score on the SAE section of the Florida Teacher Certification Examination (FTCE), and at least 1 year of successful teaching experience.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

* Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

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gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
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**Mailing Address**

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Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
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ETS PPI: 5233

**Degree Requirements**

Required Courses  
6 Total Credits

- Complete all of the following
  - Students should plan to take EDE 6933 Introductory Seminar in Elementary Education during the first semester of enrollment. Students should take EDE 6935, which includes a program culminating experience, during the final semester in the program. Note: All three courses require an independent learning experience in the form of research studies.
  - Complete the following:
    - EDE6933 - Introductory Seminar in Elementary Education (1)
    - EDE6935 - Capstone Seminar in Elementary Education (2)
    - EDF6233 - Introduction to Action Research and Analysis of Classroom Practice (3)
Specialization and Electives:
15 - 18 Total Credits

- Complete 1 of the following
  - Consult with your advisor to determine the coursework that will best meet your professional goals. Choose from the following specializations: - ESOL Endorsement - Reading Endorsement - Gifted Endorsement - Exceptional Education Certificate - General Elementary Education - Dual Language - Early Childhood Education - K-8 Mathematics and Science. The adviser may approve courses taken as part of a UCF graduate certificate program for this area of the MEd (up to 18 credit hours). - EDS 5356 Mentoring and Clinical Supervision of Pre-Professional Educators-highly recommended. (This course prepares you to supervise interns. For each senior intern and two junior interns you supervise, you will earn a Certificate of Participation which covers the cost of 6 credit hours of tuition.)

Reading Endorsement
- Complete all of the following
  - Must take all 18 hours after applying for the reading endorsement certification program. These classes must be completed within 3 years.
  - Complete the following:
    - RED5147 - Developmental Reading (3)
    - RED5517 - Classroom Diagnosis and Development of Reading Proficiencies (3)
    - RED6845 - Advanced Evaluation and Instruction in Reading (3)
    - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
    - RED6846 - Reading Practicum (6)

ESOL Endorsement K-12 Graduate Certificate
- Complete all of the following
  - Must take all 15 hours after applying for the ESOL endorsement certification program. Upon successful completion, students will need to complete separate paperwork with the state of Florida for official recognition of this endorsement.
  - Complete the following:
    - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
    - TSL5525 - ESOL Cultural Diversity (3)
    - TSL6142 - Critical Approaches to ESOL (3)
    - TSL6250 - Applied Linguistics in ESOL (3)
    - TSL6440 - Assessment Issues in TESOL (3)

Gifted Education Specialization
- Complete all of the following
  - Take all 15 credits after applying for the Gifted Certification Program. These courses are offered online.
  - Complete the following:
    - EGI6051 - Understanding the Gifted/Talented Student (3)
    - EGI6245 - Curriculum and Instruction for Teaching Advanced, Gifted, and Talented Learners (3)
    - EGI6246 - Education of Special Populations of Gifted Students (3)
    - EGI6305 - Theory and Development of Creativity (3)
    - EGI6417 - Guidance and Counseling Strategies for Teachers of Gifted and Talented Individuals (3)

Exceptional Education Specialization
- Complete all of the following
  - Must take all 18 hours after applying for the Special Education Graduate Certificate Program. These courses are offered online.
  - Complete the following:
    - EEX5051 - Exceptional Children in the Schools (3)
    - EEX6061 - Instructional Strategies Pre-K-6 (3)
    - EEX6065 - Programming for Students with Disabilities at the Secondary Level (3)
    - EEX6107 - Teaching Spoken and Written Language (3)
    - EEX6295 - Assessment and Curriculum Prescriptions for the Exceptional Population (3)
    - EEX6612 - Methods of Behavioral Management (3)

Dual Languages Graduate Certificate
- Complete all of the following
  - Select six of the following seven courses after applying for the dual languages certificate program. Please consult with your adviser to help you choose the courses that best fit the needs for your future career.
  - Complete at least 6 of the following:
    - SPN6940 - Teaching Methods for the Spanish Classroom (3)
    - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
    - TSL6143 - Curriculum and Instruction in Dual Language Programs (3)
    - TSL6250 - Applied Linguistics in ESOL (3)
    - TSL6377 - Bilingualism, Multiculturalism, and Biliteracy in the Dual Language Classroom (3)
    - TSL6443 - Assessment in Dual Language Programs (3)
    - TSL6526 - Interdependencies of Language, Culture, and Education for Dual Language Learners (3)

Early Childhood Education
- Complete the following:
  - EEC5205 - Programs and Trends in Early Childhood Education (3)
  - EEC6216 - Communicative Arts in Early Childhood Education (3)
  - EEC6216 - Communicative Arts in Early Childhood Education (3)
EEC6405 - Home-School-Community Interaction in Early Childhood Education (3)
EEC6406 - Guiding and Facilitating Social Competence (3)
EEC6606 - Global Issues in Early Childhood (3)

Mathematics and/or Science Specialization
- Complete the following:
  - IDS6937 - Teaching Mathematics and Science Using Reform-Based Practices (3)
  - MAE6318 - Current Methods in Elementary School Mathematics (3)
  - MAE6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher (3)
  - MAE6641 - Problem Solving and Critical Thinking Skills (3)
  - MAE6899 - Seminar in Teaching Mathematics (3)
  - SCE5836 - Space and Physical Science for Educators (3)

General Elementary Education Specialization
- Earn at least 15 credits from the following:
  - ISC6146 - Environmental Education for Educators (3)
  - LAE5295 - Writing Workshop (1 - 3)
  - LAE5319 - Methods of Elementary School Language Arts (3)
  - LAE5415 - Children's Literature in Elementary Education (3)
  - LAE5495 - Assessing Writing (3)
  - LAE6296 - Advanced Writing Workshop (1 - 3)
  - LAE6417 - Investigation in Children's Literature (3)
  - LAE6616 - Trends in Language Arts Education (3)
  - LAE6936 - Seminar in Language Arts Education (3)
  - MAE6318 - Current Methods in Elementary School Mathematics (3)
  - MAE6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher (3)
  - MAE6641 - Problem Solving and Critical Thinking Skills (3)
  - RED5517 - Classroom Diagnosis and Development of Reading Proficiencies (3)
  - RED6116 - Advanced Study in Foundations of Reading (3)
  - SCE5836 - Space and Physical Science for Educators (3)
  - TSL5345 - Methods of ESOL Teaching (3)
  - TSL6142 - Critical Approaches to ESOL (3)
  - TSL6440 - Assessment Issues in TESOL (3)
  - EME6053 - Teaching and Learning with Emerging Technologies (3)
  - EME6507 - Multimedia for Education and Training (3)

Professional Teaching Certificate
- Complete all of the following
  - Refer to your statement of eligibility. Upon successful completion, students will need to pass all sections of FTCE and complete separate paperwork with the state of Florida for official recognition.
  - Complete the following:
    - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
    - EDG6415 - Principles of Instruction and Classroom Management (3)
    - EEX5051 - Exceptional Children in the Schools (3)
    - RED5147 - Developmental Reading (3)
    - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
    - TSL6250 - Applied Linguistics in ESOL (3)

Thesis/Nonthesis Option
9 Total Credits
- Complete 1 of the following
  - Thesis Option
    - Complete all of the following
      - Complete at least 1 of the following:
        - EDF6481 - Fundamentals of Graduate Research in Education (3)
        - Course Not Found
      - Earn at least 6 credits from the following types of courses:
        - EDE 6971 - Thesis
  - Nonthesis Option
    - Earn at least 9 credits from the following types of courses:
      - Additional Electives selected with the permission of the adviser A culminating experience is required in this option.

Grand Total Credits: 30 - 33
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Elementary Education MA

College
College of Community Innovation and Education

Department
School of Teacher Education

Program Website
https://ccie.ucf.edu/teachered/elementary-education/

Program Handbook
Elementary Education MA

Program Contact Information

Lisa Brooks
Associate Lecturer
Lisa.Brooks@ucf.edu
ED 220

Is this program available 100% online?

No

Licensure Disclosure

For more information on how this program meets certification requirements, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Elementary-Ed-MA.pdf.
Program Description

The Master of Arts in Elementary Education program is state-approved and provides the necessary qualifications for initial teacher certification (Grades K-6) for individuals who have an undergraduate degree in a field other than Elementary Education and who wish to become certified to teach in this field. This program is committed to preparing highly qualified Elementary Education teachers with knowledge and skills aligned with research-based best practices. Additionally, graduates from this program will have the necessary requirements to apply for state-approved ESOL Endorsement (Grades K-12) and Reading Endorsement (Grades K-12) upon graduation.

The Master of Arts in Elementary Education (Grades K-6) ESOL Endorsement/Reading Endorsement (Grades K-12) is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The Elementary Education MA requires a minimum of 48 credit hours beyond the bachelor's degree. If the MA program will be providing a student's initial certification, 80 clock hours of field experience must be completed before enrolling in the supervised internship.

Total Credit Hours Required: 48 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Co-requisite

Undergraduate courses are not counted in the 48 credit hours of graduate courses that are required for the degree.

- EEX 4070 Teaching Exceptional Students 3 Credit Hours

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Résumé or CV
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core
18 Total Credits

- Complete all of the following
  - Complete the following:
    - EDE6933 - Introductory Seminar in Elementary Education (1)
    - EDG6415 - Principles of Instruction and Classroom Management (3)
    - EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)
    - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
    - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
    - TSL6250 - Applied Linguistics in ESOL (3)
    - EDE6935 - Capstone Seminar in Elementary Education (2)
  - EDE 6933 should be taken in the first semester of the program, when possible EDE 6935 should be taken in the final semester during Graduate Internship

Specialization
24 Total Credits

- Complete all of the following
  - Complete the following:
    - LAE5319 - Methods of Elementary School Language Arts (3)
    - LAE5415 - Children's Literature in Elementary Education (3)
    - MAE6318 - Current Methods in Elementary School Mathematics (3)
    - SCE6315 - Methods in Elementary School Science (3)
    - RED5147 - Developmental Reading (3)
    - RED5517 - Classroom Diagnosis and Development of Reading Proficiencies (3)
    - RED5948 - Practicum in Reading Assessment and Instruction (3)
    - SSE6115 - Methods in Elementary School Social Science (3)
  - Note: EDE 6933 is a prerequisite or co-requisite for the specialization courses above.

Internship
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - EDE 6946 Graduate Internship Satisfactory completion of graduate internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065.

Grand Total Credits: 48
Program Details

The program requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the pre-professional level of performance for all of the Florida Educator Accomplished Practices. Multiple artifacts and reflective analyses are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of assessing the professional development of students as reflective practitioners. The program also requires an internship.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See https://ccie.ucf.edu/explore-via/.

Students should plan to enroll in EDE 6933 during the first semester. Students should also plan to enroll in TSL 5085 early in the program to learn about infused English Speakers of Other Languages (ESOL) requirements including preparation of the TESOL notebook.

Contact the program coordinator before choosing classes for your first semester.

Students should ensure that they meet all requirements for Graduate Internship:

- Overall graduate GPA must be 3.0 or higher.
- Passing scores on the appropriate FTCE exams (Subject Area and Professional Area Exams) are required prior to admission to the graduate internship.
- Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at: http://www.education.ucf.edu/clinicalexp/.
- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Additional Program Requirements

- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in all Florida Educator Accomplished Practices.
- Complete and submit all TESOL portfolio assignments to address Florida ESOL competencies.
- Pass all applicable sections of the Florida Teacher Certification Examination.

NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

Independent Learning

A portfolio is required that demonstrates professional growth, reflection, and proficiency in all Florida Educator Accomplished Practices. An internship is also required that demonstrates proficiency in all Florida Educator Accomplished Practices.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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https://funding.graduate.ucf.edu

Emergency and Crisis Management MECM

College
College of Community Innovation and Education
Department
School of Public Administration

Program Website
https://ccie.ucf.edu/public-administration/emergency-management/

Program Handbook
Emergency and Crisis Management MECM

Program Contact Information
Qian Hu, PhD
Associate Professor MECM Program Director
Qian.Hu@ucf.edu
Telephone: 407-823-3340

Nasrin Lakhani, MNM
Manager Graduate Advising and Student Support
Nasrin@ucf.edu
Telephone: 407-823-0912

Edlira Dursun, MNM, MPA
Academic Program Coordinator II
Edlira.Dursun@ucf.edu
DPAC 446B

Is this program available 100% online?
Yes

UCF Online
Please Note: The Emergency and Crisis Management MECM may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description
The Master of Emergency Management and Crisis (MECM) is designed to prepare individuals to practice as highly trained practitioners in the emergency management field through the development of core competencies including: resiliency, hazard mitigation and analysis, disaster response and recovery, emergency preparedness and planning, fiscal management, communication, intergovernmental administration, geographic information systems, legal and ethical decision making, cultural competency and diversity, and general emergency management.

The frequency of man-made and natural disasters has dramatically increased since the 1990s; emergency and disaster declarations in the U.S. reflect it. Florida is the fifth highest state with 69 major disaster declarations between 1953 and 2016 (Congressional Research Service, 2017). For communities to be prepared for, respond to, recover from, and mitigate these disasters, an educated workforce of emergency management specialists is required. Students in UCF’s Master in Emergency and Crisis Management program will learn and demonstrate the competencies required to lead and manage in this dynamic and complex profession.

The Master of Emergency and Crisis Management program requires a minimum of 36 credit hours beyond the bachelor's degree. The program is offered completely online and students have an option of taking part-time or full-time coursework.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation specifically for the MECM program. Letters of recommendation should be from professors, researchers, or professional administrators who can attest to the applicant’s ability to succeed in graduate coursework and his or her work ethic.
- Résumé: The most current, professional resume should be provided.
- Statement of goals: The goal statement is a key component of the admission review process and serves as an example of the applicant’s ability to express him or herself in writing. The goal statement must be single-spaced, one-inch margins, and no longer than two pages (500-800 words). Applicant must address the following:
  - Reason for pursuing graduate study in Emergency and Crisis Management, including future goals and plans.
  - Topics or areas of special interest in Emergency and Crisis Management.
  - Expectations of the graduate program.
  - What the applicant will bring to the program that would make him or her a special candidate for admission to this program.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

All International students must meet university minimum TOEFL requirements regardless of the language in which the undergraduate program was completed.

Admission to this program is competitive. Applicants are encouraged to apply early to this program. All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

Students are expected to be computer literate upon entry to the program. This program is completely online, so computer skills and computer internet access are necessary to take the courses.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

The Spring 2022 Application Deadline has been extended until December 1, 2021.

Graduate School Contact

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gradadmissions@ucf.edu
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Millican Hall 230
Online Application
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Emergency and Crisis Management Core Courses**
30 Total Credits

- Complete the following:
  - PAD6399 - Foundations of Emergency Management and Homeland Security (3)
  - PAD6825 - Cross-Sectoral Governance (3)
  - PAD6700 - Research Methods in Public Administration (3)
  - PAD6397 - Managing Emergencies and Crises (3)
  - PAD6705 - Public Sector Communications (3)
  - PAD6227 - Public Budgeting (3)
  - PAD6398 - Hazard Analysis and Disaster Planning (3)
  - PAD6439 - Leadership in Public Service (3)
  - PAD6946 - Internship (3)
  - PAD6086 - Advanced Concepts and Applications in Emergency and Crisis Management (3)

**Additional Elective Courses**
6 Total Credits

- Complete at least 2 of the following:
  - PAD5356 - Managing Community and Economic Development (3)
  - PAD5850 - Grant and Contract Management (3)
  - PAD5887 - Energy Policy (3)
  - PAD6200 - International Emergency and Crisis Management (3)
  - PAD6307 - Public Policy Analysis and Management (3)
  - PAD6327 - Public Program Evaluation Techniques (3)
  - PAD6335 - Strategic Planning and Management (3)
  - PAD6353 - Environmental Planning and Policy (3)
  - PAD6716 - Information Systems for Public Managers and Planners (3)
  - CCJ6027 - Criminal Justice Responses to Terrorism (3)
  - CPO6729 - Global Security in the Age of Migration (3)
  - IDC5602 - Cybersecurity: A Multidisciplinary Approach (3)
  - INR6136 - Seminar in American Security Policy (3)
  - PLA5587 - Current Issues in Cyberlaw (3)
  - PUR6403 - Crisis Public Relations (3)

Grand Total Credits: **36**

**Program Details**

**Additional Program Requirements**

- Students must achieve a grade of "B-" (80%) or higher in all Emergency and Crisis concentration courses.
- Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

**Independent Learning**

Independent learning is demonstrated throughout the curriculum through the process of inquiry, dialogue, and service learning. Tangible projects such as strategic plans, grant proposals, commercialization plans and case studies along with projects, scholarly papers, internships, and presentations at professional conferences contribute to the self-development of our students.

**Financial Information**

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Emergency Management and Homeland Security Graduate Certificate

College
College of Community Innovation and Education

Department
School of Public Administration

Program Website
https://ccie.ucf.edu/public-administration/emergency-management/certificate/

Program Contact Information

Claire Knox PhD
Associate Professor
Director, Emergency Management Programs
Claire.Knox@ucf.edu
Telephone: 407-823-0153

Nasrin Lakhani, MNM
Director, Graduate Advising and Student Support
Nasrin@ucf.edu
Telephone: 407-823-0912

Edlira Dursun, MNM, MPA
Academic Program Coordinator II
Edlira.Dursun@ucf.edu
DPAC 446B

Is this program available 100% online?
No

Program Description

This graduate certificate in Emergency Management and Homeland Security provides intensive interdisciplinary graduate education for working professionals engaged in or seeking professional careers in emergency management and homeland security.

The curriculum focuses on managing security threats and crises, natural and man-made treats, disasters, or emergencies through the coordination of public, private and nonprofit sectors. In addition to covering the National Planning Frameworks and recent trends in policy and practice in this field, the program will focus on the Florida emergency management and public safety systems. Courses are held in the evenings and taught by experienced faculty members and professional.

The certificate in Emergency Management and Homeland Security consists of 18 credit hours at the graduate level, including four required core courses and two electives (one from a planning emphasis and one from management/policy). The EMHS graduate certificate program is a face-to-face program; some courses are offered on-line, however, students admitted to the EMHS program are expected to attend each course in person face-to-face. Each face-to-face course is offered one night a week for three hours, on the main campus.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5, in a sealed envelope, from each college/university attended.
- Current professional résumé including experience in the field (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
  - Personal background and career aspirations in emergency management.
  - Reason for pursuing graduate study in emergency management, including your future career goals and plans.
  - Specific areas of emergency management that interests you.

These documents must be attached to the application. All applications must be submitted by the established deadline date. Applications received after the established deadline may not be considered. Students are expected to be computer literate and have computer internet access upon entry to the program. Admission to this program is competitive; applicants meeting the minimum admission requirements are not guaranteed admission to this program.

Graduate Application Deadlines

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<th>Spring</th>
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - PAD6399 - Foundations of Emergency Management and Homeland Security (3)
  - PAD6397 - Managing Emergencies and Crises (3)
  - PAD6716 - Information Systems for Public Managers and Planners (3)
  - PAD6825 - Cross-Sectoral Governance (3)

Elective Courses
6 Total Credits

- Complete all of the following
  - Complete at least 1 of the following:
    - PAD5336 - Introduction to Urban Planning (3)
    - PAD5338 - Land Use and Planning Law (3)
    - PAD5356 - Managing Community and Economic Development (3)
    - PAD6353 - Environmental Planning and Policy (3)
    - CGN6655 - Regional Planning, Design, and Development (3)
    - PUR6403 - Crisis Public Relations (3)
    - PAD6946 - Internship (3)
  - Complete at least 1 of the following:
    - PAD5850 - Grant and Contract Management (3)
    - PAD6142 - Nonprofit Organizations (3)
    - PAD6037 - Public Organization Management (3)
    - PAD6387 - Transportation Policy (3)
    - HSA5198 - Health Care Decision Sciences and Knowledge Management (3)
    - INR6136 - Seminar in American Security Policy (3)
    - PAD6946 - Internship (3)

Grand Total Credits: 18

Program Details

PAD 6946 - Internship 3 Credit Hours

Internship must show a management and policy emphasis. If an internship is completed as a group 2 elective, a second internship cannot be completed as a group 1 elective. Current or previous employment cannot be applied toward the internship.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
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Telephone: 407-823-2827
Appointment Line: 407-823-5285
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finaid@ucf.edu
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Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

ESOL Endorsement K-12 Graduate Certificate
College
College of Community Innovation and Education

Department
School of Teacher Education

Program Website
https://ccie.ucf.edu/teachered/k-12/world-languages-education/

Program Contact Information
Donita Grissom, Ph.D.
ESOL Education
School of Teacher Education
(ED-122N)
Donita.Grissom@ucf.edu

Is this program available 100% online?
No

Licensure Disclosure
The ESOL Endorsement K-12 Graduate Certificate has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-ESOL-Endorsement-GC.pdf.

Program Description
The Graduate Certificate in English for Speakers of Other Languages Endorsement K-12 is designed to prepare certified teachers with specialized knowledge and training in the five areas required by the state of Florida to teach in a K-12 setting: applied linguistics, curriculum, testing, methodology, and cross-cultural awareness.

Teaching K-12 requires a primary teaching certification. The ESOL K-12 is an endorsement that is added to an existing teaching certification. This endorsement, therefore, is for certified teachers or students currently seeking certification with the State of Florida only.

The number of non-native students in the K-12 setting in the state of Florida as well as in most states is rapidly increasing. These students represent an array of different languages and cultural backgrounds. With these changes in K-12 schools comes more demand for qualified teachers who have the necessary knowledge and skills to work with English for Speakers of Other Languages (ESOL) students.

The ESOL Endorsement K-12 Graduate Certificate provides students with specialized knowledge and training in the five endorsement areas required for teachers in the state of Florida. The certificate focuses on the five areas required by the state of Florida to teach in a K-12 setting: applied linguistics, curriculum, testing, methodology, and cross-cultural awareness. Successful completion of the certificate meets the requirements for the state of Florida add-on endorsement for ESOL K-12.

No course substitutions are allowed. Upon successful completion, students will need to complete separate paperwork with the state of Florida for official recognition of this endorsement.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits

- Complete all of the following
  - Complete at least 1 of the following:
    - TSL5345 - Methods of ESOL Teaching (3)
    - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
  - Complete at least 1 of the following:
    - TSL5525 - ESOL Cultural Diversity (3)
    - EDF6886 - Multicultural Education (3)
  - Complete at least 1 of the following:
    - TSL6440 - Assessment Issues in TESOL (3)
    - SPA6474 - Assessment and Management of Culturally and Linguistically Diverse Populations (3)
  - Complete the following:
    - TSL6142 - Critical Approaches to ESOL (3)
    - TSL6250 - Applied Linguistics in ESOL (3)

Grand Total Credits: 15

Program Details

TSL 5085 - Teaching Language Minority Students in K-12 Classrooms 3 Credit Hours for students admitted to the Speech and Language Pathology program

SPA 6474 - Assessment and Management of Culturally and Linguistically Diverse Populations 3 Credit Hours for students admitted to the Speech and Language Pathology program

Independent Learning

TSL 5525, TSL 5345, and TSL 6250 require students to work with one or more nonnative speakers. TSL 6250 requires students to transcribe data elicited from a nonnative speaker.

Exceptional Student Education K-12 MA

College

College of Community Innovation and Education

Department

Department of Counselor Education & School Psychology

Program Website

https://ccie.ucf.edu/teachered/exceptional-student-education/

Program Handbook

Exceptional Student Education K-12 MA
Is this program available 100% online?
No

Licensure Disclosure
The Exceptional Student Education K-12 MA program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Exceptional-Student-Ed-MA.pdf.

Program Description
The Master of Arts in Exceptional Student Education K-12 program is for non-education majors or previously certified teachers in another content area.

Graduates must be eligible for certification by the successful completion of the degree program in the area of exceptional student education (ESE) and must pass the Florida certification exams. Graduates will also receive Reading and ESOL endorsements upon successful completion of the program, if not currently endorsed. For additional information, contact esegrad@ucf.edu.

This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates. Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Passing scores on ALL applicable sections of the Florida Teacher Certification Examination (FTCE) are required prior to graduation. See www.fldoe.org for available test dates, test sites, and possible score conversions. The exams include:

- FTCE Professional Education Test (P.Ed.)
- FTCE Subject Area Exam for Exceptional Student Education K-12

The Master of Arts (MA) in Exceptional Student Education K-12 program requires a minimum of 39 credit hours beyond the bachelor's degree including 9 credit hours of required core courses, 21 credit hours of specialization courses, and 9 credit hours of Internship and Reading Practicum. Individual learning projects, including research skills and action research, are embedded in the specialization courses and completed in authentic settings. In addition, a culminating Comprehensive Exam will be completed to demonstrate mastery of research, knowledge, skills, and dispositions of standards from accrediting educational agencies. Students entering the MA program without prior related courses and/or appropriate teacher certifications may need to complete courses in the MA Foundation Core/Co-requisite area as prescribed by Florida State Statutes for initial teacher preparation (ITP).

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See https://ccie.ucf.edu/explore-via/.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites
These foundation core/co-requisite courses are prescribed by Florida State Statutes for initial teacher preparation (ITP). Students entering the Exceptional Student Education MA program without prior related courses and/or appropriate teacher certifications may need to complete courses in the Foundation Core/Co-requisite area.

If a student has successfully completed equivalent courses in the Foundation Core/Co-requisite area, as prescribed by Florida State Statutes for initial teacher preparation, then course waivers can be requested (see adviser).

- EEX 5051 - Exceptional Children in the Schools 3 Credit Hours Students are strongly advised to enroll in EEX 5051 early in their graduate program.
- EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education 3 Credit Hours
- EDG 6415 - Principles of Instruction and Classroom Management 3 Credit Hours
- EDF 6237 - Principles of Learning and Introduction to Classroom Assessment 3 Credit Hours
- RED 5147 - Developmental Reading 3 Credit Hours
- RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies 3 Credit Hours Please note that this is currently not available online.
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A copy of current ESOL endorsement, if applicable.
- A copy of current Reading Endorsement, if applicable.
- A copy of current professional teaching certificate, if applicable.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students may not switch from an MA program to an MEd program, or vice versa, without going through the university’s admission process.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Core
9 Total Credits

- Complete all of the following
  - Complete the following:
    - EDF6481 - Fundamentals of Graduate Research in Education (3)
    - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
    - TSL6250 - Applied Linguistics in ESOL (3)
  - TSL 5085 and TSL 6250 are required courses leading to ESOL endorsement. Students should see an adviser if they hold a current ESOL endorsement

Specialization
21 Total Credits

- Complete the following:
  - EEX6061 - Instructional Strategies Pre-K-6 (3)
  - EEX6065 - Programming for Students with Disabilities at the Secondary Level (3)
  - EEX6107 - Teaching Spoken and Written Language (3)
  - EEX6295 - Assessment and Curriculum Prescriptions for the Exceptional Population (3)
  - EEX6524 - Organization and Collaboration in Special Ed (3)
  - EEX6612 - Methods of Behavioral Management (3)
  - EEX6342 - Seminar-Critical Issues in Special Education (3)

Internship and Practicum
9 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following types of courses:
    - EEX 6946 Graduate Internship: ESE
  - Complete the following:
    - RED5948 - Practicum in Reading Assessment and Instruction (3)

Grand Total Credits: 39

Program Details

Foundation Core/Co-requisites

These foundation core/co-requisite courses are prescribed by Florida State Statutes for initial teacher preparation (ITP). Students entering the Exceptional Student Education MA program without prior related courses and/or appropriate teacher certifications may need to complete courses in the Foundation Core/Co-requisite area.

If a student has successfully completed equivalent courses in the Foundation Core/Co-requisite area, as prescribed by Florida State Statutes for initial teacher preparation, then course waivers can be requested (see adviser).

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- RED 5517 - Classroom Diagnosis and Development of Reading Proficiencies 3 Credit Hours Please note that this is currently not available online.

Additional Graduation Requirements

- Pass all applicable sections of the Florida Teacher Certification Examination. See http://www.fl.nesinc.com/ or www.fldoe.org for additional information about test dates and resources.
- Pass Comprehensive Exam.
- Complete a LiveText Professional Portfolio.
- Complete a TESOL Portfolio.
- Compliance with all university and graduate student policies.

NOTE: Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator’s Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBR 6A-4.002).

Independent Learning

The Exceptional Student Education K-12 MA program requires the completion of an Action Research Project, Internship, and Reading Practicum. These independent learning activities take place in authentic settings where students must apply, reflect upon and refine their knowledge, skills and dispositions acquired in the program.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Grad Fellowships
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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Exceptional Student Education MEd

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Program Website
https://ccie.ucf.edu/teachered/exceptional-student-education/

Program Handbook
Exceptional Student Education MEd

Program Contact Information

Mary Little PhD
Professor
mary.little@ucf.edu
Telephone: 407-823-3275
ED 315J

Is this program available 100% online?
Yes

UCF Online

Please note: Exceptional Student Education (MEd) may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

The MEd in Exceptional Student Education program prepares exceptional education teachers to work in programs serving Pre-K-12 students with disabilities. The program is designed for teachers already certified in exceptional student education (or other certification in special education) to enhance their knowledge, skills, and dispositions.

The Master of Education (M.Ed.) in Exceptional Student Education program is designed for teachers already certified in exceptional student education to enhance their knowledge, skills, and dispositions. It requires 33 credit hours beyond the bachelor’s degree including a 3-credit-hour research course, 24 credit hours of specialization courses and 6 credit hours of either a thesis or electives approved by an adviser. A Comprehensive Examination is also required and serves as the culminating experience in the program. Individual Learning Projects, including research skills and action research in authentic settings, are embedded in the specialization courses.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor’s Degree

Program Prerequisites

Current Florida Professional Teaching Certificate in Exceptional Student Education or have completed all the requirements for that Professional Teaching Certificate.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Current Florida Professional Teaching Certificate in Exceptional Student Education or have completed all the requirements for that Professional Teaching Certificate.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants who have graduated from an accredited university or college teacher certification program in another state or country, in the appropriate subject and/or grade range, may also be admitted to the M.Ed. program with approvals from appropriate College and Department committees and advisors.

Students may not switch from an M.A. program to an M.Ed. program, or vice versa, without going through the university’s admission process. Courses used to gain initial state certification may not be transferred into an M.Ed. program.

Graduate Application Deadlines

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<tr>
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Application Deadlines Notes

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gradadmissions@ucf.edu  
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Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

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Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Required Course  
3 Total Credits

Students are strongly encouraged to enroll in this course early in their graduate program.  
- Complete the following:  
  - EDF6481 - Fundamentals of Graduate Research in Education  (3)

Specialization Courses  
24 Total Credits

- Complete all of the following  
  - Complete the following:  
    - EEX6061 - Instructional Strategies Pre-K-6  (3)  
    - EEX6065 - Programming for Students with Disabilities at the Secondary Level  (3)  
    - EEX6107 - Teaching Spoken and Written Language  (3)  
    - EEX6295 - Assessment and Curriculum Prescriptions for the Exceptional Population  (3)  
    - EEX6342 - Seminar-Critical Issues in Special Education  (3)  
    - EEX6524 - Organization and Collaboration in Special Ed  (3)  
    - EEX6612 - Methods of Behavioral Management  (3)  
  - Earn at least 3 credits from the following types of courses:  
    - Elective course approved by an adviser (3 credit hours) OR EEX 6863 - Supervised Teaching Practicum with Exceptional Children 2-7 Credit Hours (for completion of the Severe and Profound Endorsement ONLY)  
    - Please see your adviser for guidance regarding the selection of the above courses. EEX 6061 recommended to be completed successfully prior to enrollment in EEX 6107. EEX 6107 may be taken only AFTER 18 hours of graduate coursework in Exceptional Student Education have been completed successfully.

Thesis/Nonthesis Option

6 Total Credits

- Complete 1 of the following  
  - Thesis Option  
  - Earn at least 6 credits from the following types of courses:  
    - EEX 6971 - Thesis  
  - Nonthesis Option  
  - Complete 1 of the following  
    - Earn at least 6 credits from the following:  
      - EEX6909 - Research Report  (1 - 99)  
    - Earn at least 6 credits from the following types of courses:  
      - Two additional electives approved by an adviser Suggested areas of concentration may be taken as approved electives within the M.Ed. program. Please see complete listings of additional courses in Certificate/Endorsement Programs in Exceptional Student Education for possible electives (Autism Spectrum Disorder, Intervention Specialist, Pre-K Disabilities, Severe and Profound, and Special Education). Electives must be approved by an adviser.

Comprehensive Examination

0 Total Credits

- The culminating Comprehensive Examination must be successfully completed to demonstrate mastery of research, skills, knowledge and dispositions of standards from accrediting educational agencies prior to graduation.

Grand Total Credits: 33

2021-2022 Graduate Catalog
Program Details

Independent Learning

The MEd program may require a Supervised Teaching Practicum as an elective that is part of the Severe and Profound certificate. Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on and refine knowledge and skills acquired in the program. Please see your adviser for further information.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Exercise Physiology, Education PhD

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Program Website

https://healthprofessions.ucf.edu/kpt/

Program Contact Information

David Fukuda PhD
Associate Professor
david.fukuda@ucf.edu
Telephone: 407-823-0442
ED 320R

Is this program available 100% online?

No

Program Description

The Exercise Physiology track in the Education PhD program provides advanced studies in the area of exercise physiology and wellness, sport and exercise science. Students interested in the doctoral program might come from the biological and health-related professions, exercise science, physical education, or athletic training.

The Exercise Physiology track in the Education PhD program requires a minimum of 66 credit hours beyond the master's degree. Students must complete 24 credit hours of core courses, 27 credit hours of specialization courses, and 15 credit hours of dissertation. All students must also complete the candidacy examination.

Total Credit Hours Required: 66 Credit Hours Minimum beyond the Master's Degree
Program Prerequisites
A master's degree in a closely related field and master's level competency in educational research and statistics.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field and master's level competency in educational research and statistics.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Resumé/vita reflecting relevant experience.
- Writing sample.

Graduate Application Deadlines

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Application Deadlines Notes
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
51 Total Credits

- Details

Core
24 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)
  - Complete the following:
    - IDS7501 - Issues and Research in Education (3)
    - EDF7475 - Qualitative Research in Education (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
    - IDS7502 - Case Studies in Research Design (3)
    - EDF7406 - Multivariate Statistics in Education (3)

- IDS 7502 - Case Studies in Research Design may be substituted for one of the approved research electives from group A listed in the Program Details section below. EDF 7406 - Multivariate Statistics in Education may be substituted for one of the approved research electives from group B listed in the Program Details section below.

Specialization Courses
27 Total Credits

- Complete at least 9 of the following:
  - PET6357C - Environmental Perturbation and Human Performance (3)
  - PET6363 - Dietary and Nutritional Supplementation for Athletic Performance (3)
  - PET6366 - Exercise, Nutrition and Weight Control (3)
  - PET6376 - Sport Nutrition (3)
  - PET6381 - Physiology of Neuromuscular Mechanisms (3)
  - PET6388 - Cardiovascular Physiology (3)
  - PET6389 - Exercise Physiology II (3)
  - PET6395 - Program Design in Strength and Conditioning (3)
  - PET6515 - Assessment and Evaluation in Kinesiology (3)
  - PET6521 - Exercise Physiology Instrumentation (3)
  - PET6690 - Exercise Prescription for Special Populations (3)
  - PET7365 - Cardiovascular Dynamics During Exercise (3)
  - PET7368 - Regulation of Metabolism During Exercise (3)
  - PET7387 - Exercise Endocrinology (3)
  - Course Not Found

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - APK 7980 - Dissertation Research Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Candidacy
0 Total Credits

- To enter candidacy for the PhD, students must have an overall 3.0 GPA on all graduate work included in the planned program and pass all required examinations. Examinations will be scheduled by the student and major adviser. The associate dean for graduate studies and research must be notified of the date and location of the exam 30 days in advance. Students must be enrolled in the university during the semester an examination is taken. The following are required to be admitted to candidacy and enroll in dissertation hours: - Completion of all course work, except for dissertation hours. - Successful completion of the candidacy examination. - Successful defense of the written dissertation proposal. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Submission of an approved program of study.

Candidacy Examinations
0 Total Credits

- All PhD candidates will be required to complete two examinations. Please note that there may be variations in length of exam time and content based on the respective requirements of each track. - Research in the Specialization—8-hour written examination. - Specialization—3-hour oral examination.

Grand Total Credits: 66
**Program Details**

**Independent Learning**

The dissertation satisfies the independent learning requirement.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120  
Telephone: 407-823-2827  
Appointment Line: 407-823-5285  
Fax: 407-823-5241  
finaid@ucf.edu  
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student’s graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127  
gradjfellowship@ucf.edu  
https://funding.graduate.ucf.edu

**Fundraising Graduate Certificate**

**College**

College of Community Innovation and Education

**Department**

School of Public Administration

**Program Website**

https://ccie.ucf.edu/public-administration/nonprofit-management/

**Program Contact Information**

**Young-Joo Lee, PhD**

Nonprofit Management Director & Associate Professor  
Young-Joo.Lee@ucf.edu

**Nasrin Lakhani, MNM**

Director, Student support Services  
Nasrin@ucf.edu  
407-823-0912

**Is this program available 100% online?**

Yes

**UCF Online**

**Please note:** Fundraising Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

The Graduate Certificate in Fundraising is an 18-credit completely online certificate that provides an overview of the core concepts in fundraising and development for those interested in a career as a professional fundraiser. The Certificate is intended to meet the needs of individuals seeking a focused experience in order to prepare for or advance their careers in fundraising and development. It is appropriate for students who seek to expand their knowledge, but who do not wish to commit to a master's degree program.

Credits earned in the certificate program may be applied toward the Master of Nonprofit Management (MNM) degree. However, admission to the MNM degree program has separate requirements from those of the certificate program and students considering continuing into the master's degree should familiarize themselves with credit transfer policy and should consult with a faculty adviser early in their certificate program. The Graduate Certificate in Fundraising requires that students complete 18 credit hours. Students must maintain at least a 3.0-grade point average in order to be awarded the Graduate Certificate. The Certificate must be completed within 7 years.

The Graduate Certificate in Fundraising program is a completely online; some courses may be offered face-to-face, however, students in this program are expected to have the ability to complete the coursework online. The program requires a minimum of 18 credit hours beyond the bachelor's degree; consisting of 15 credit hours of core courses and 3 credit hours of a restricted elective.

The Certificate program incorporates service learning in some of its courses. Service learning involves students partnering with a local nonprofit organization of their choice to offer technical assistance in a specific area of operation that is covered in their coursework. Service Learning enhances the students' academic experience and presents opportunities for networking. The process is supervised by the instructor and provides benefits to both the organization and the student.

Some of the courses may also involve group work intended to develop leadership abilities while providing an opportunity for the student to show his or her ability to be a team player. Group projects promote important intellectual and social skills and help to prepare students for professional work where teamwork and collaboration are necessary.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript meeting the minimum GPA requirement of 2.5 from each college/university attended.
- A current, professional résumé.
- Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
  - What is your reason for pursuing graduate study in Fundraising, including your future goals and plans?
  - What specific areas of Fundraising interest you?
  - Work and/or Voluntary experience (fundraising or nonprofit experience is preferred, not required)
- Applicants who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - PAD5146 - Nonprofit Resource Development (3)
  - PAD6142 - Nonprofit Organizations (3)
  - PAD6237 - Ethics and Governance in Nonprofit Management (3)
  - PAD6235 - Fundraising as a Profession (3)

Elective Courses (See Program Details For Course Delivery Options)
6 Total Credits

- Complete at least 2 of the following:
  - PAD5850 - Grant and Contract Management (3)
  - PAD6208 - Nonprofit Financial Management (3)
  - PAD6335 - Strategic Planning and Management (3)
  - PAD6236 - Philanthropy and Society (3)
  - PAD6946 - Internship (3)

Grand Total Credits: **18**

Program Details

Students must achieve a grade of "B-" (80%) or better in every course. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

- PAD 5146 - Nonprofit Resource Development **3 Credit Hours**
- PAD 6142 - Nonprofit Organizations **3 Credit Hours**
- PAD 6237 - Ethics and Governance in Nonprofit Management **3 Credit Hours**
- PAD 6235 - Fundraising as a Profession **3 Credit Hours**

Elective Courses

Online Electives

- PAD 5850 - Grant and Contract Management **3 Credit Hours**
- PAD 6208 - Nonprofit Financial Management **3 Credit Hours**
- PAD 6335 - Strategic Planning and Management **3 Credit Hours**

Face-to-Face Electives

- PAD 6236 - Philanthropy and Society **3 Credit Hours**
- PAD 6946 - Internship **3 Credit Hours**

Gifted Education Graduate Certificate

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research
Program Website
https://ccie.ucf.edu/lser/gifted-education/

Program Contact Information
Gillian Eriksson PhD
Gillian.Eriksson@ucf.edu
Telephone: 407-823-6493
Education 223M

Is this program available 100% online?
Yes

UCF Online

Please note: Gifted Education Graduate Certificate may be completed fully online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure
Completion of the Gifted Education Certificate program meets the Florida Department of Education requirements to add Gifted Education Endorsement certification to a Florida Teaching Certificate. The coursework presents research-based best practices that examine a broadened conception of giftedness, a comprehensive system of identification and a continuum of services for meeting the differential learning and developmental needs of diverse populations of gifted students. The Gifted Education Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Gifted-Ed-GC.pdf.

Program Description
The Graduate Certificate in Gifted Education prepares educators and classroom teachers to meet the learning needs of diverse advanced, gifted and talented learners in a range of services while providing an accelerated and enriched curriculum.

The coursework for the graduate certificate is based on the Teacher Preparation Standards in Gifted Education set by NAGC/CEC (National Association for Gifted Children and the Council for Exceptional Children). There are two levels possible within the coursework: the regular certificate level applicable to all teachers and professionals seeking specialist knowledge in gifted education; and the Advanced level that includes the Advanced Standards in Gifted Education Teacher Training applicable to those seeking higher levels of research who may already have wide experience in working with advanced, gifted and talented learners. Strategies that model best practices of pre-assessment, curriculum compacting, differentiated and independent learning, extended curriculum, and creative productivity are infused in this program.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits

- Complete the following:
  - EGI6051 - Understanding the Gifted/Talented Student (3)
  - EGI6245 - Curriculum and Instruction for Teaching Advanced, Gifted, and Talented Learners (3)
  - EGI6246 - Education of Special Populations of Gifted Students (3)
  - EGI6417 - Guidance and Counseling Strategies for Teachers of Gifted and Talented Individuals (3)
  - EGI6305 - Theory and Development of Creativity (3)

Grand Total Credits: **15**

Global, International and Comparative Education Graduate Certificate

**College**

College of Community Innovation and Education

**Department**

School of Teacher Education

**Program Website**

https://ccie.ucf.edu/lser/curriculum-and-instruction/

**Program Contact Information**

Karen Biraimah PhD
karen.biraimah@ucf.edu
Telephone: 407-823-2428
ED 320H

**Is this program available 100% online?**

No

**Program Description**

The Graduate Certificate in Global, International and Comparative Education prepares teachers for PK-12 classrooms and other professionals who wish to work in international and cross-cultural settings, NGOs, bilateral and multilateral organizations, and/or state and federal government departments.

The certificate is comprised of five graduate courses addressing the theoretical, methodological, critical and practical issues associated with global education, through both macro and micro cultural perspectives.

Students in the Graduate Certificate in Global, International and Comparative Education program must complete five courses (15 credit hours total), four required courses and one elective. Courses may be taken out of sequence.

**Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree**
Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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Institution Codes

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TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - EDF6809 - Introduction to Comparative and International Education (3)
  - SSE5391 - Global Education: Theory and Practice (3)
  - EDS6365 - Education and National Development (3)

Elective Courses
3 Total Credits

- Complete 1 of the following
  - Earn at least 3 credits from the following:
    - EDG6775 - Exploring Global Educational Issues in International Contexts (1 - 3)
  - Complete at least 1 of the following:
    - EEC6606 - Global Issues in Early Childhood (3)
  - Other graduate courses with Program Coordinator's approval may be chosen.

Grand Total Credits: 15
Health Administration MHA

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Program Website
https://ccie.ucf.edu/hmi/programs/health-administration-ma/

Program Description
The Master of Health Administration offers two tracks: Health Services Administration and the Executive Health Services Administration. Please scroll to the bottom of this page for further details on these Tracks.

The track in Health Services Administration is a traditional program with courses offered in mixed-mode format and the Executive Health Services Administration is geared towards professionals with at least three years of Health Management experience and is offered fully online.

Application Requirements
Applicants MUST select a track. Tracks may have different requirements and deadlines.

Graduate School Contact
Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Health Administration MHA - Health Administration MHA, Executive Health Services Administration Track

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Track Website
https://ccie.ucf.edu/hmi/programs/health-administration-ma/

Track Handbook
Health Administration MHA, Executive Health Administration Track
Is this track available 100% online?

Yes

UCF Online

Please note: Executive Health Services Administration may be completed fully online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Track Description

The School of Global Health Management and Informatics offers a CAHME accredited Executive Master of Health Administration (Executive MHA). This program is 44 credit hours beyond the bachelor's degree and is designed for self-motivated, experienced health services professionals with a minimum of three years of relevant professional experience, including managers, mid-career professionals, and clinicians.

Health care is America's fastest growing service industry. The Master of Health Administration focuses on the structure of health care organizations and examines important issues that impact the health care industry. The Executive MHA (eMHA) track is attractive to working health care professionals due to the online delivery format, which allows students to earn an Executive MHA degree from any location and at times convenient to each student. Throughout the program, students enhance their leadership skills. Learn from leading experts and academics in the field of health administration.

Students admitted into this program must possess a minimum of three years of relevant health care and/or management experience. Students enroll in the program as a cohort with a maximum of 30 students. The cohort model provides faculty the opportunity to discuss issues in greater detail and allows students the ability to network among their peers. The program will be delivered in an online format.

The Executive Master of Health Administration track requires a minimum of 44 credit hours beyond the bachelor's degree. Students must pass the capstone course at the end of their studies as part of Capstone in the Executive MHA (HSA 6188) program requirement.

This program is completely online with a course sequence that is lock-step and students must follow the required sequence of coursework.

Total Credit Hours Required: 44 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

Evidence of a minimum of three (3) years or more of relevant professional experience in healthcare.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Essay indicating how the Executive Master of Health Administration track will enhance your career goals (1-2 pages).
- Résumé (no longer than two pages).
- Evidence of a minimum of three (3) years or more of relevant professional experience in healthcare.
- Three recommendation letters that speak to your health care and/or management experience (1 of those recommendation letters must be from your current supervisor).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation and TOEFL scores. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission to the program is competitive, based on an evaluation of the applicant's abilities, past academic performance, work experience and the match of the program with career goals. The Executive Master of Health Administration track accepts the most qualified students. Not all students who apply may be accepted, even if minimum requirements are met.

UCF employees and state employees cannot use the tuition waiver for this program.

Graduate Application Deadlines

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<td>Jan 15</td>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core
40 Total Credits

- Complete the following:
  - HSA6766 - Health Care Statistics and Research (4)
  - HSA6345 - Leadership for Health Care Executives (4)
  - HSA6179 - Financial Accounting for Health Care Managers (4)
  - HSA6179 - Financial Accounting for Health Care Managers (4)
  - HSA6505 - Health Care Quality and Risk Management (4)
  - HSA6178 - Financial Management for Health Care Managers (4)
  - HSA6197C - Health Care Informatics for Health Care Leaders (4)
  - HSA6156 - Health Care Economics and Policy (4)
  - HSA6520 - Epidemiology and Health Planning (4)
  - HSA6555 - Health Care Ethics and Law (4)

Capstone
4 Total Credits

- Complete all of the following
  - Complete the following:
    - HSA6188 - Health Care Capstone and Strategic Management (4)
  - HSA 6188 is offered during the second Summer and Fall of the program. A final written examination experience is required of all students in the program. This requirement will be met through successful completion of the capstone course (HSA 6188). To successfully pass this course, students must earn a grade of "A" or "B." There is one exception: students who earn no other "C" grades while in the Executive MHA program will be permitted to pass this course with a grade of "C."

Grand Total Credits: 44

Track Details

Cost Per Credit Hour

For the Executive Master of Health Administration program, the cost per credit hour is $772.69.*

*Fee is subject to change

Additional Program Requirements

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Additionally, a student may apply a maximum total of six semester credit hours of "C" grades, or the "C" grade credits associated with at most two classes, whichever is greater, to satisfy degree program requirements. Students who earn more than six credit hours or two "C" grades may be dismissed from further study in the program. A student who earns a grade of "D" or below will be dismissed from further study in the Executive MHA program. In any course repeated, a student must earn a grade of "B" or better. The Executive Master of Health Administration program generally does not use plus/minus grading.

Audio and Visual Equipment Requirement: The program is 100 percent online, however in our commitment to engage students in an online learning environment, there may be times when the professors hold webinars and virtual conferences which require students to be online. As such, students need reliable audio and visual equipment (i.e. microphone, headsets, web camera, etc.) to participate in webinars and video conferences.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Tangible research projects, scholarly papers, or our capstone experience also contribute to the self-development of our students.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

2021-2022 Graduate Catalog
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Health Administration MHA - Health Administration MHA, Health Services Administration Track

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Track Website
https://ccie.ucf.edu/hmi/programs/health-administration-ma/

Track Handbook
Health Administration MHA, Health Services Administration Track

Track Contact Information
Kourtney Nieves PhD
kourtney.nieves@ucf.edu
Telephone: 407-823-3264
UCF Downtown DPAC 404-B

Pamela VonGraff
pamela.vongraff@ucf.edu
Telephone: 407-823-0564
UCF Downtown DPAC 401

Is this track available 100% online?
No

Track Description
The School of Global Health Management and Informatics offers a Master of Health Administration with a track in Health Services Administration. The HSA track is 51 credit hours beyond the bachelor's degree and is accredited by the Commission on Accreditation of Healthcare Management Education (CAHME).

Healthcare is America's fastest-growing service industry, and healthcare executives are in demand to administer the acute and long-term care needs of an aging population and to serve as consultants to businesses and industrial organizations. The Master of Health Administration degree program focuses on the structure of healthcare organizations and examines important issues that impact the healthcare industry as well as examining the management and administrative aspects of health services organizations. It encompasses the business management side of health care, including human resources, marketing, sales, accounting, information systems, planning, and facility management.

The HSA track is attractive to working professionals as all course options are offered at night. Selected courses are also available during the day for students with more flexible schedules. Students can enroll in the program on a full-time or part-time basis. Courses are offered in a mixed-mode format with classroom limits capped at 30 students per section.

Working professionals with 3 or more years of healthcare management experience may wish to consider the Executive Master of Health Administration (e-MHA): www.ucf.edu/online/degree/executive-master-health-administration/.

The Health Services Administration track in the Health Administration MHA program requires a minimum of 51 credit hours beyond the bachelor's degree. This includes 42 credit hours of required courses, 3 credit hours of the capstone course, 3 credit hours of electives, and 3 credit hours of an internship. The degree program also requires 6 credit hours of prerequisite courses, which are taken after admission into the program. Knowledge of personal computers is also required.

Total Credit Hours Required: 51 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Goal statement indicating how the Master of Health Administration program will enhance career goals.
- Résumé (no longer than two pages).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission to the program is competitive, based on evaluation of the applicant’s abilities, past academic performance, work experience, and the match of the program with career goals. The Master of Health Administration program accepts only the most qualified students. Not all students who apply may be accepted, even if minimum requirements are met. Applicants who do not meet admission criteria are subject to an interview.

Students are admitted to the Master of Health Administration program in the fall and spring semesters. Full and part-time plans of study are available for both fall and spring admission cycles.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Health Services Administration</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Prerequisites**
0 Total Credits

- Students must complete prerequisite course work, including knowledge of finance and economics. Upon admission to the MHA program, students will be required to complete 2 prerequisite assessment tests. Students that receive a passing score of a 80% or higher will be exempt from taking the prerequisite in the respective area. - HSA 5177 - Foundations of Health Care Finance 3 Credit Hours - HSA 5436 - Foundations of Health Care Economics 3 Credit Hours

**Required Courses**
45 Total Credits

- Details

**Core**
42 Total Credits

- Complete the following:
  - HSA5198 - Health Care Decision Sciences and Knowledge Management (3)
  - HSA6119 - Health Care Organization and Management (3)
  - HSA6128 - Health Care Services Management (3)
  - HSA6155 - Health Economics and Policy (3)
  - HSA6195 - Management and Health Information Systems (3)
  - HSA6342 - Health Care Human Resources (3)
  - HSA6385 - Health Care Quality Management (3)
  - HSC6636 - Issues and Trends in the Health Professions (3)
  - HSC6911 - Scientific Inquiry in the Health Profession (3)
  - PHC6000 - Epidemiology (3)
  - PHC6146 - Health Planning and Policy (3)
  - PHC6160 - Health Care Finance (3)
  - PHC6164 - Health Care Finance II (3)
  - PHC6420 - Case Studies in Health Law (3)

**Capstone (See Program Details For Note)**
3 Total Credits

- Complete the following:
  - HSA6925 - Capstone in HSA (3)

**Elective Courses**
3 Total Credits

- Complete at least 1 of the following:
  - HSC6656 - Healthcare Ethics (3)
  - HSA6112 - International Health Systems (3)
  - HSA6512 - Health Care Leadership (3)
  - HSA6536 - Health and Medical Terminology for Health Administrators (3)
  - HSA5509 - Health Care Risk Management I (3)
  - PHC6183 - Health Care Emergency Management (3)
  - PUP6607 - Politics of Health (3)
  - NGR5660 - Health Disparities: Issues and Strategies (3)
  - GEY5648 - Gerontology: An Interdisciplinary Approach (3)

**Internship**
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - HSA 6946 Internship - offered every semester (Prerequisites: 24 credit hours completed in the program and completion of the internship orientation webcourse) As a requirement for the Master of Health Administration, students must complete an internship within the administrative realm of an actual healthcare organization. Students will work directly with the Director of Internships to select an organization of interest. Students are required to fulfill 240 contact hours within their selected organization over the course of the semester, or approximately 18-20 hours per week. Many healthcare organizations will require that students complete a background check, which may include, but is not limited to, law enforcement fingerprinting, state driving records, credit reports, and criminal records check. The cost of the background check is the student's responsibility. Background checks may take time to complete and, subsequently, could delay the student's internship placement. It is advised that, in the semester prior to the internship, the student contact the organization directly to obtain further information on the organization’s background check requirements. Students who have potential background issues must contact the Director of Internships to schedule an interview in order to discuss the impact on field placement. The Health Services Administration Program cannot guarantee internship placement or subsequent degree completion for students who do not pass background checks Students with 3 or more years of relevant healthcare management experience may qualify for a research-based internship option and are advised to contact the Director of Internships.

Grand Total Credits: **51**

2021-2022 Graduate Catalog
Track Details

Prerequisite

Students must complete prerequisite course work, including knowledge of finance and economics. Upon admission to the MHA program, students will be required to complete 2 prerequisite assessment tests. Students that receive a passing score of a 80% or higher will be exempt from taking the prerequisite in the respective area.

- HSA 5177 - Foundations of Health Care Finance 3 Credit Hours
- HSA 5436 - Foundations of Health Care Economics 3 Credit Hours

Additional Program Requirements

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher. Additionally, students may not earn more than six credit hours of "C" grades while in the program. Students who receive more than six credit hours of "C" will be dismissed from further study in the major. A student who earns a grade of "D" or below will be dismissed from further study in the HSA program. In any course repeated, a student must earn a grade of "B" or better. The Health Services Administration program generally does not use plus/minus grading.

Capstone

Capstone is offered every semester.

A final written examination experience is required of all students in the program. This requirement will be met through successful completion of the capstone course (HSA 692S). To successfully pass this course, students must earn a grade of "A" or "B." There is one exception: students who earn no other "C" grades while in the MHA program will be permitted to pass this course with a grade of "C."

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Tangible research projects, scholarly papers, internships, and the capstone experience also contribute to the self-development of our students.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Health Care Informatics MS, Professional Science Master's

College

College of Community Innovation and Education

Department

School of Global Health Management and Informatics

Program Website

https://ccie.ucf.edu/hmi/programs/hci/

Program Handbook

Health Care Informatics MS
**Program Contact Information**

**Kendall Cortelyou-Ward PhD**  
Kendall.Cortelyou-Ward@ucf.edu  
DPAC 401

**Hannah Nguyen, MHA**  
Program Coordinator  
Hannah.Nguyen@ucf.edu  
Telephone:(407) 823-2359  
DPAC 401

**Is this program available 100% online?**

Yes

**UCF Online**

**Please note:** Professional Master of Science in Health Care Informatics may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

**Program Description**

The School of Global Health Management and Informatics offers a Professional Master of Science in Health Care Informatics, a program designed to meet the growing demand for highly trained health care informatics professionals.

The Health Care Informatics program is unique in that it focuses on providing students with a thorough grounding in the clinical, management and business aspects of the health informatics field. Credits must be taken in health care database management, systems analysis and design, privacy and security and other courses in the curriculum. Students are required to complete an internship during the last semester in the program.

The program is offered online in a distance-learning cohort format to offer access and convenience to working professionals. Applications and admissions are accepted twice per year for fall and spring terms only. Students with professional experience in health care, new graduates from bachelor's programs in health services and students seeking career changes to the health care industry are all encouraged to apply.

The Health Care Informatics program is entirely online. This program charges an enhanced tuition rate.

For state employees (including UCF employees), the tuition waiver will not cover courses in the HCI program.

The successful completion of the MSHCI degree does NOT qualify graduates to sit for the Registered Health Information Administrator (RHIA) or the Registered Health Information Technician (RHIT) certifications.

However, graduates WITH EXPERIENCE are eligible to sit for the Certified Health Data Analyst (CHDA) certification after the successful completion of your MSHCI degree.

The Professional Master of Science in Health Care Informatics will be awarded upon completion of 38 credits of prescribed graduate study. Courses are offered all online as a cohort program. All students must take the courses in the prescribed sequence, and during the last semester in the program students complete an internship and Capstone course.

**Total Credit Hours Required: 38 Credit Hours Minimum beyond the Bachelor’s Degree**

**Program Prerequisites**

There are no prerequisites required for the program. However, students without the necessary professional or educational experience are required to take three foundational courses in health services administration, health information management, and medical terminology. These can be completed while enrolled in the MSHCI program.

Foundational courses

- HIM 6007 - Survey of Health Information Management *1 Credit Hours*
- HIM 6267 - Foundation of Health Services Administration *1 Credit Hours*
- HIM 6477 - Medical Terminology for Informatics Professionals *1 Credit Hours*
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate admission requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Goal statement indicating how the Health Care Informatics MS program will enhance career goals or why the applicant wants to pursue this degree (at least 1 page, doubled-spaced, 12 pt).
- Résumé (no longer than two pages).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation and TOEFL scores. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission to the program is competitive, based on evaluation of the applicant's abilities, past academic performance, work experience, and the match of the program with career goals. The Professional Master of Science in Health Care Informatics accepts the most qualified students. Not all students who apply may be accepted, even if minimum requirements are met. Furthermore, personal phone interviews may be used as part of the evaluation process.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses

38 Total Credits

- Complete the following:
  - HIM5118C - Health Care Informatics and Information Technology (4)
  - HIM6123C - Project Management in Health Care Informatics (4)
  - HIM6122C - System Analysis and Design (4)
  - HIM6217C - Health Care Database Management (4)
  - HIM6119C - Biostatistics and Decision Analysis (4)
  - HIM6121C - Privacy and Security in Health Care Informatics (4)
  - HIM6464C - Epidemiology, Analytics and Quality Management (4)
  - HIM6124C - Health Care Data Architecture and Modeling (4)
  - HIM6947 - MS Healthcare Informatics Internship (2)
  - HIM6927 - MS Healthcare Informatics Orientation (1)
  - HIM6125 - Health Care Informatics Capstone (3)

Grand Total Credits: 38
Program Details

Cost Per Credit Hour

For the Health Care Informatics MS program, the cost per credit hour is $772.69.*

*Fee is subject to change

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Health Information Administration Graduate Certificate

College

College of Community Innovation and Education

Department

School of Global Health Management and Informatics

Program Website

https://ccie.ucf.edu/health-information-administration/

Program Contact Information

Alice Noblin
Lecturer
Alice.Noblin@ucf.edu
Telephone: 407-823-2353
HPA2 210D

Is this program available 100% online?

Yes

UCF Online

Please note: This program may be completed online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees. See http://ucf.edu/online for more information.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

Applications to this certificate program are currently suspended for the Spring 2018 semester.

The Department of Health Management and Informatics offers a Health Information Administration Graduate Certificate program that requires 20 credit hours of graduate coursework. This program is designed to meet the growing demand for highly trained health care information management professionals. Admission is only open to those in the UCF MS in Health Care Informatics program.

Admission is only open to graduates of the UCF MS in Health Care Informatics or students currently admitted to the UCF MS in Health Care Informatics program. Prerequisites in Anatomy and Physiology I and II are required for current students and graduates of the MS-HCI degree program before enrolling in the graduate certificate program.

The Health Information Administration graduate certificate program is offered online in a distance-learning cohort format for easy access and convenience by working professionals. Applications and admissions are accepted twice per year for fall and spring terms, beginning no earlier than the second year of the student's Healthcare Informatics MS program (that is, fall of the student's second year of MS study).

The successful completion of the Health Care Informatics MS and Health Information Administration Graduate Certificate programs enables students to sit for the RHIA (Registered Healthcare Information Administrator) certification examination.

The Graduate Certificate in Health Information Administration requires 20 credit hours of graduate study in addition to enrollment in the MS in Health Care Informatics program. Courses are offered online as a cohort program with all students completing two courses per semester. All students must take the courses in the prescribed sequence. Visit the program website (see above) for the program cohort schedule.

Total Credit Hours Required: 20 Credit Hours Minimum beyond the Master's Degree

Program Prerequisites

Prerequisites

The following prerequisites are required for consideration of admission to the graduate certificate program:

- Anatomy and Physiology I and II

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Goal statement indicating how the RHIA Graduate Certificate will enhance career goals or why the applicant wants to pursue this certification (at least 1 page, doubled-spaced, 12 pt).
- Résumé (no longer than two pages).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation and TOEFL scores. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission to the program is competitive, based on evaluation of the applicant's abilities, past academic performance, work experience, and the match of the program with career goals. The RHIA Graduate Certificate program accepts the most qualified Masters in HCI students. Not all students who apply may be accepted, even if minimum requirements are met. Furthermore, personal phone interviews may be used as part of the evaluation process.

Application Deadlines Notes

Applications to this certificate program are currently suspended for the Spring 2018 semester.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses

20 Total Credits

- Complete the following:
  - HIM6293 - Health Care Coding and Diagnosis (4)
  - HSA6189 - Health Care Procedural Coding and Reimbursement (4)
  - HSA6752 - Health Care Analytics (4)
  - HSA6759 - Health Care Outcomes Management (4)
  - HSA6179 - Financial Accounting for Health Care Managers (4)

Grand Total Credits: 20

Program Details

Cost Per Credit Hour

For the Graduate Certificate in Health Information Administration program, the cost per credit hour is $772.69.*

*Fee is subject to change

Housing and Residence Life Graduate Certificate

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Program Website
https://ccie.ucf.edu/elhe/

Program Contact Information

Thomas Cox EdD
thomas.cox@ucf.edu
ED 315Q

Is this program available 100% online?
No
Program Description

The housing and residence life leadership graduate certificate is designed to prepare individuals to become leaders and professionals in the residence life profession. It will expand their knowledge of topics relevant to residence life including student development theory, student personnel services, the first-year college experience, diversity issues, and legal and ethical issues in student services. Additionally, individuals will develop their own leadership skills as well as curriculum development for programs involving students in residence at colleges and universities. A practical internship is required to allow hands on field experience in housing and residence life.

Total Credit Hours Required: 16 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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<th>Housing and Residence Life Graduate Certificate</th>
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<th>Spring</th>
<th>Summer</th>
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Graduate School Contact

Brandon Ruff
gradmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
6 Total Credits

- Complete the following:
  - EDH6047 - Theories of College Student Development (3)
  - EDH6634 - Student Personnel Services in Higher Education (3)

Elective Courses
9 Total Credits

- Complete at least 3 of the following:
  - EDH6045 - First Year College Experience (3)
  - EDH7046 - Diversity Issues in Higher Education (3)
  - EDH6204 - Leadership in College Organizations (3)
  - EDH6215 - The College Curriculum (3)
  - EDH6407 - Ethical and Legal Issues in Student Personnel (3)

Internship
1 Total Credits

- Earn at least 1 credits from the following types of courses:
  Internship - Students will complete a 1 credit hour internship (15-20 hours) in a residence life position or a closely related position approved by the faculty advisor.

Grand Total Credits: 16
Initial Teacher Professional Preparation Graduate Certificate

College

College of Community Innovation and Education

Department

School of Teacher Education

Program Website

https://ccie.ucf.edu/teachered/secondaryed/initial-teacher-professional-preparation/

Program Contact Information

Regina "Gina" Gresham
Associate Professor
Gina.Gresham@ucf.edu
Telephone: 407-823-3550
Education 123J

Is this program available 100% online?

Yes

UCF Online

Please note: Initial Teacher Preparation Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

The Initial Teacher Professional Preparation Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Initial-Teacher-Prep-GC.pdf.

Program Description

The Graduate Certificate in Initial Teacher Professional Preparation (ITPP) is designed for students who have secured a teaching position, plan to obtain a teaching position, or have a temporary teaching certificate. The Initial Teacher Preparation Program graduate certificate is not a Florida Department of Education state-approved teacher education program. The certificate offers foundation courses that can supplement partial requirements toward teacher certification. The ITPP does not include content area courses, internship, or certification exams. Therefore, students seeking professional educator certification may wish to complete one of UCF’s Teacher Education M.A.T. programs (link: https://ccie.ucf.edu/academics/masters/).

The professional core courses in the certificate include uploading key assignments using the Via™ by Watermark platform and are assessed by faculty to provide evidence of candidate proficiency in all Florida Educator Accomplished Practices (FEAPs). The goal of the certificate is to enable educators to have successful teaching experiences in grades 6-12 classrooms. Students may enroll in the Initial Teacher Professional Preparation certificate and apply to be accepted to the Teacher Education MAT program either concurrently or after earning the certificate.

For the Initial Teacher Professional Preparation graduate certificate, students complete six courses (18 credit hours total), including five required courses (15 credit hours) and at least one special methods course (3 credit hours).

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See https://ccie.ucf.edu экспlore-via/.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor’s Degree

Application Requirements

Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.
Graduate Application Deadlines

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Graduate School Contact

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Milican Hall 230
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Institution Codes
GRE: 5233
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ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits

- Complete all of the following
  - Complete the following:
    - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
    - EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)
    - EDG6415 - Principles of Instruction and Classroom Management (3)
    - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
  - Complete at least 1 of the following:
    - RED5147 - Developmental Reading (3)
    - LAE5496 - Disciplinary Literacy in the Content Areas (3)

Co-requisite
3 - 4 Total Credits

- Complete 1 of the following
  Option 1 (This is not a certification course.)
  - Complete the following:
    - EEX5051 - Exceptional Children in the Schools (3)
  Option 2
  - Complete all of the following
    - Special Methods Course selection depends on the student's intended certification area. Equivalent courses from other accredited Florida State Institutions may be used to satisfy this requirement the discretion of the Program Director. Students are advised to obtain permission in advance of registering for these courses.
    - Complete at least 1 of the following:
      - ARE5359 - Teaching Art K-12 (4)
      - FLE5345 - Teaching World Languages in K-12 Schools (3)
      - LAE5346 - Methods of Teaching English Language Arts (3)
      - MAE5327 - Teaching Middle School Mathematics (3)
      - MAE5336 - Current Methods in Secondary School Mathematics (3)
      - MUE5348C - K-12 Music Methods (4)
      - SCE5325 - Teaching Middle School Science (3)
      - SCE5337 - Issues and Methods in Secondary School Science (3)
      - SSE5790 - Inquiry and Instructional Analysis in Social Science Education (3)
      - BTE6935 - Seminar in Business Education (3)

Grand Total Credits: 18 - 19
Instructional Design and Technology MA

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Program Website
https://ccie.ucf.edu/lser/instructional-design-and-technology/

Program Handbook
Instructional Design and Technology MA

Program Contact Information
Richard Hartshorne PhD
Professor
richard.hartshorne@ucf.edu
Telephone: 407-823-1861
ED 209-E

Is this program available 100% online?
Yes

UCF Online

Please Note: Instructional Design and Technology, MA may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description
The Master of Arts in Instructional Design and Technology program is designed to meet the needs of working professionals in various settings. It enables candidates to complete courses in traditional, Web, and mixed-mode (with one face-to-face meeting every other week). The program offers tracks in educational technology, instructional systems, and e-learning, enabling candidates to pursue careers in business and industry, K-12, and higher education. Please scroll to the bottom of this page for further details on these Tracks.

All three tracks of the Instructional Design and Technology MA require a minimum of 36 credit hours beyond the bachelor's degree, including 12 credit hours of instructional technology core courses, 12 credit hours of professional specialization, nine credit hours of electives, and three credit hours of practicum.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Instructional Design and Technology MA - Instructional Design and Technology MA, e-Learning Track

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Track Website
https://ccie.ucf.edu/lser/instructional-design-and-technology/

Track Handbook
Instructional Design and Technology MA, e-Learning Track

Track Contact Information
Glenda Gunter PhD
Professor
glenda.gunter@ucf.edu
ED 322-P

Is this track available 100% online?
Yes
UCF Online

Please note: Instructional Design and Technology, e-learning (MA) may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

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Track Description

The e-Learning track in the Instructional Design and Technology MA program is designed for educators in K-12 and higher education, trainers, and instructional designers.

The program focuses on teaching the design, delivery, and evaluation of high-quality e-learning materials for in-service, preservice teachers and online trainers for both totally online and blended (hybrid) learning environments. Candidates gain employment in business and industry, K-12, and higher education as organizations across sectors work to optimize the use of telecommunication technologies to enhance individual and collaborative learning. The e-Learning program may be completed totally online or in mixed mode. For more information, visit education.ucf.edu/insttech/.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Two letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

For more information about the MA program, visit the program website at http://insttech.education.ucf.edu.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
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Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
24 Total Credits

- Details

Core
12 Total Credits

- Complete all of the following
  - Complete the following:
    - EME6055 - Current Trends in Instructional Technology (3)
    - EME6062 - Research in Instructional Technology (3)
    - EME6613 - Instructional System Design (3)
  - Complete at least 1 of the following:
    - EDF6432 - Measurement and Evaluation in Education (3)
    - EDF6401 - Statistics for Educational Data (3)
    - EDF6481 - Fundamentals of Graduate Research in Education (3)
    - EDF6472 - Data-Driven Decision-Making for Instruction (3)

Specialization
12 Total Credits

- Complete all of the following
  - "EME 6417 (fall) must be taken before EME 6458 (spring); these courses are sequential, where the work product begins in EME 6417 and is completed during EME 6458.
  - Complete the following:
    - EME6507 - Multimedia for Education and Training (3)
    - EME6457 - Distance Education: Technology Process Product (3)
    - EME6417 - Interactive Online and Virtual Teaching Environments (3)
    - EME6458 - Virtual Teaching and the Digital Educator (3)

Elective Courses (See Program Details Below For Note) 9
9 Total Credits

- Complete at least 3 of the following:
  - EDF6432 - Measurement and Evaluation in Education (3)
  - EDF6401 - Statistics for Educational Data (3)
  - EDF6401 - Statistics for Educational Data (3)
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)
  - EME6607 - Planned Change in Instructional Technology (3)
  - EME6601 - Instructional Simulation Design for Training and Education (3)
  - EME6614 - Instructional Game Design for Training and Education (3)
  - IDS6503 - Instructional Trends in Instructional Systems (3)
  - IDS6504 - Adult Learning (3)
  - EINS5251 - Usability Engineering (3)
  - EINS5255C - Interactive Simulation (3)
  - ENC6216 - Editing Professional Writing (3)
  - Course Not Found
  - ENC6261 - Technical Writing, Theory and Practice (3)
  - ENC6296 - Interactive Design in Technical Communication (3)
  - DIG6432 - Transmedia Story Creation (3)
  - EDF6635 - Capstone: Action Research in Teacher Leadership (3)
  - EDF6884 - Education as A Cultural Process (3)
  - EDF6886 - Multicultural Education (3)
  - EGI6051 - Understanding the Gifted/Talented Student (3)
  - ESE6217 - Curriculum Design (3)
  - TSL5345 - Methods of ESOL Teaching (3)

Practicum
3 Total Credits

- Complete the following:
  - EME6940 - Theory into Practice in Educational Technology (3)

Grand Total Credits: 36
Track Details

Elective Courses

Courses not listed above require adviser approval. All ENC courses require approval from the English Department.

Independent Learning

Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Instructional Design and Technology MA - Instructional Design and Technology MA, Educational Technology Track

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Track Website

https://ccie.ucf.edu/lsers/instructional-design-and-technology/

Track Handbook

Instructional Design and Technology MA, Educational Technology Track

Track Contact Information

Richard Hartshorne PhD
Professor
richard.hartshorne@ucf.edu
Telephone: 407-823-1861
ED 209-E

Is this track available 100% online?

Yes
Please note: Instructional Design and Technology, Ed Tech (MA) may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

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Track Description

The Educational Technology track is designed for classroom teachers who want to increase their technical skills and become highly skilled at successfully integrating technology into the curriculum as well as develop leadership skills necessary to become site-based technology coordinators in K-12 schools, colleges, and universities.

The knowledge gained through the Educational Technology program allows candidates to seek new career paths in education. Graduates from this program have the skills to become computer teachers, instructors at the community and college and university level and instructional designers. The program does not lead to any current certification in Florida.

The Educational Technology track in the Instructional Design and Technology MA program requires a minimum of 36 credit hours beyond the bachelor’s degree. The curriculum includes 12 credit hours of instructional technology core courses, 12 credit hours of professional specialization, nine credit hours of electives, and three credit hours of practicum.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor’s Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Two letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

For more information about the MA program, visit the program website at http://ccie.ucf.edu/lser/instructional-design-and-technology.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
**Graduate School Contact**

**Brandon Ruff**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Required Courses
24 Total Credits

Details

Core
12 Total Credits

- Complete all of the following
  - EME6055 - Current Trends in Instructional Technology (3)
  - EME6062 - Research in Instructional Technology (3)
  - EME6613 - Instructional System Design (3)
  - EDF6432 - Measurement and Evaluation in Education (3)
  - EDF6481 - Fundamentals of Graduate Research in Education (3)
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)

Professional Specialization
12 Total Credits

- Complete the following:
  - EME6053 - Teaching and Learning with Emerging Technologies (3)
  - EME6405 - Adapting and Integrating Innovative Technologies in Education (3)
  - EME6507 - Multimedia for Education and Training (3)
  - EME6602 - Integration of Technology into the Learning Environments (3)

Elective Courses (See Program Details Below For Note)
9 Total Credits

- Complete at least 3 of the following:
  - EDF6432 - Measurement and Evaluation in Education (3)
  - EDF6401 - Statistics for Educational Data (3)
  - EDF6481 - Fundamentals of Graduate Research in Education (3)
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)
  - EME6209 - Multimedia Instructional Systems II (3)
  - EME6457 - Distance Education: Technology Process Product (3)
  - EME6607 - Planned Change in Instructional Technology (3)
  - EME6601 - Instructional Simulation Design for Training and Education (3)
  - IDS6504 - Adult Learning (3)
  - ENC6216 - Editing Professional Writing (3)
"Course Not Found"
  - ENC6261 - Technical Writing, Theory and Practice (3)
  - ENC6296 - Interactive Design in Technical Communication (3)
  - DIG6432 - Transmedia Story Creation (3)
  - EDF6635 - Capstone: Action Research in Teacher Leadership (3)
  - EDF6884 - Education as A Cultural Process (3)
  - EDF6886 - Multicultural Education (3)
  - EGI6051 - Understanding the Gifted/Talented Student (3)
  - ESE6217 - Curriculum Design (3)
  - TSL5345 - Methods of ESOL Teaching (3)

Practicum
3 Total Credits

- Complete all of the following
  - EME6940 - Theory into Practice in Educational Technology (3)
  - Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

Grand Total Credits: 36
Track Details

Elective Courses

Students must choose at least 9 credit hours of electives. Electives in current certification area, technology, or other as approved by adviser. Courses not listed below require adviser approval. All ENC courses require approval from English Department.

Independent Learning

Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

Financial Information

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http://finaid.ucf.edu

Fellowship Information

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Instructional Design and Technology MA - Instructional Design and Technology MA, Instructional Systems Track

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Track Website

https://ccie.ucf.edu/ls/ser/instructional-design-and-technology/

Track Handbook

Instructional Design and Technology MA, Instructional Systems Track

Track Contact Information

Atsusi Hirumi PhD
Professor
atsusi.hirumi@ucf.edu
ED 322-P

Is this track available 100% online?

Yes
**UCF Online**

**Please note:** Instructional Design and Technology, Instructional Systems (MA) may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

**Track Description**

The Instructional Systems track in the Instructional Design and Technology MA program is designed for prospective and practicing instructional designers, training specialists and training directors/managers in business, industry, government, or other settings where training, professional development and lifelong learning takes place.

Candidates develop expertise in how and why people learn, how to stimulate and facilitate learning, and in the use of alternative instructional delivery systems. Candidates analyze training requirements and design, develop, evaluate, and manage training and educational programs using of current and emerging technologies. The Instructional Systems program may be completed totally online or in mixed mode.

The Instructional Systems track in the Instructional Design and Technology MA program requires a minimum of 36 credit hours beyond the bachelor's degree. The curriculum includes 12 credit hours of instructional technology core courses, 12 credit hours of professional specialization, 9 credit hours of electives, three credit hours of practicum, and a comprehensive exam taken during the last semester of coursework.

**Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree**

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation.
- Personal letter of intent stating professional and academic goals and why you want to attend our program.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

For more information about the MA program, visit the program website at http://education.ucf.edu/insttech.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
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gradadmissions@ucf.edu
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Graduate Admissions

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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
24 Total Credits

Details

Core
12 Total Credits

- Complete all of the following
  - Complete the following:
    - EME6055 - Current Trends in Instructional Technology (3)
    - EME6062 - Research in Instructional Technology (3)
    - EME6613 - Instructional System Design (3)
  - Complete at least 1 of the following:
    - EDF6432 - Measurement and Evaluation in Education (3)
    - EDF6401 - Statistics for Educational Data (3)
    - EDF6481 - Fundamentals of Graduate Research in Education (3)
    - EDF6472 - Data-Driven Decision-Making for Instruction (3)

Professional Specialization
12 Total Credits

- Complete the following:
  - EME6226 - Instructional Development and Evaluation (3)
  - EME6507 - Multimedia for Education and Training (3)
  - EME6607 - Planned Change in Instructional Technology (3)
  - EME6705 - Administration of Instructional Systems (3)

Elective Courses (See Program Details Below For Note)
9 Total Credits

- Complete at least 3 of the following:
  - EDF6432 - Measurement and Evaluation in Education (3)
  - EDF6401 - Statistics for Educational Data (3)
  - EDF6481 - Fundamentals of Graduate Research in Education (3)
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)
  - EME6209 - Multimedia Instructional Systems II (3)
  - EME6457 - Distance Education: Technology Process Product (3)
  - EME6601 - Instructional Simulation Design for Training and Education (3)
  - EME6614 - Instructional Game Design for Training and Education (3)
  - EME6646 - Instructional Game Design for Training and Education (3)
  - IDS6503 - International Trends in Instructional Systems (3)
  - IDS6504 - Adult Learning (3)
  - EIN5251 - Usability Engineering (3)
  - EIN5255C - Interactive Simulation (3)
  - EIN6258 - Human Computer Interaction (3)
  - ENC6216 - Editing Professional Writing (3)
  - Course Not Found
  - ENC6261 - Technical Writing, Theory and Practice (3)
  - ENC6296 - Interactive Design in Technical Communication (3)
  - DIG6432 - Transmedia Story Creation (3)
  - DIG6136 - Design for Interactive Media (3)
  - DIG6551 - Theory and Practice of Interactive Storytelling (3)

Practicum
3 Total Credits

- Complete all of the following
  - Complete the following:
    - EME6940 - Theory into Practice in Educational Technology (3)
  - Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

Grand Total Credits: **36**
Track Details

Elective Courses

Courses not listed above require adviser approval. All ENC courses require approval from the English department.

Independent Learning

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Financial Information

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Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Instructional Design for Simulations Graduate Certificate

College

College of Community Innovation and Education

Department

Learning Sciences & Educational Research

Program Website

https://ccie.ucf.edu/lsr/instructional-design-and-technology/

Program Contact Information

Atsusi Hirumi PhD
Associate Professor
hirumi@ucf.edu
ED 320-F

Is this program available 100% online?

Yes

UCF Online

Please note: Instructional Design for Simulations Graduate Certificate may be completed fully online although not all program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

The Graduate Certificate in Instructional Design for Simulations prepares educators, instructional designers, and human resource and training specialists in corporate, industry and educational settings to work with engineers, graphic artists, computer programmers, and game developers to design training and instructional systems.

Training and educational programs are now incorporating stand-alone and PC-based simulations and instructional (video) games to enhance human motivation and performance. The result has been a growing demand for simulation and game-based training and instructional systems in corporate, government and education sectors. The Graduate Certificate in Instructional Design for Simulations provides an interdisciplinary approach to prepare educators, instructional designers, and human resource and training specialists in corporate, industry and educational settings to work with engineers, graphic artists, computer programmers, and game developers to design training and instructional systems, focusing on the pedagogical aspects of stand-alone and PC-based desktop training and educational simulations and games.

For the Instructional Design for Simulations certificate, students complete five required courses (15 credit hours total). The recommended plan of study, noting when each course is offered, is provided on the Instructional Technology program website under Plans of Study for professional certificates.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-S8
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits

- Complete all of the following
  - Complete the following:
    - EME6613 - Instructional System Design (3)
    - EME6938ST4 - ST: Story Design for Instruction (3)
    - EME6601 - Instructional Simulation Design for Training and Education (3)
    - EME6614 - Instructional Game Design for Training and Education (3)
  - Complete at least 1 of the following:
    - IDS5142 - Modeling and Simulation for Instructional Design (3)
    - IDS6147 - Perspectives on Modeling and Simulation (3)

Grand Total Credits: 15
Instructional Design Graduate Certificate

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Program Website
https://ccie.ucf.edu/lser/instructional-design-and-technology/

Program Contact Information
Atsusi Hirumi PhD
Professor
atsusi.hirumi@ucf.edu
ED 320-F

Is this program available 100% online?
Yes

UCF Online

Please note: Instructional Design Graduate Certificate may be completed fully online although not all program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Instructional Design prepares educators, instructional designers, and human resource and training specialists in corporate, industry, and educational settings to design training, professional development, or other instructional materials.

The certificate provides an opportunity for study and professional training and development of the design and development skills necessary to become an instructional designer in varied fields. The certificate requires substantial independent thinking and emphasis is placed on the cultivation of scholarly attitudes and methods.

All courses are taught online and many will also be offered on a flexible schedule at the Orlando campus. The Instructional Design graduate certificate requires five courses (15 credit hours total).

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements
Required Courses
15 Total Credits

- Complete the following:
  - EME6613 - Instructional System Design (3)
  - EME6226 - Instructional Development and Evaluation (3)
  - EME6607 - Planned Change in Instructional Technology (3)
  - EME6507 - Multimedia for Education and Training (3)
  - EME6705 - Administration of Instructional Systems (3)

Grand Total Credits: 15

Instructional/Educational Technology Graduate Certificate

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Program Website
https://ccie.ucf.edu/lser/instructional-design-and-technology

Program Contact Information

Richard Hartshorne PhD
Professor
richard.hartshorne@ucf.edu
Telephone: 407-823-1861
ED 209-E

Is this program available 100% online?
Yes

UCF Online

Please note: Instructional/Educational Technology Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

The Graduate Certificate in Instructional/Educational Technology provides teachers with the knowledge and training to apply technological tools to the learning process.

The Graduate Certificate in Instructional/Educational Technology provides an opportunity for study and professional training and development of the leadership skills necessary to become educational technology specialists in K-12 schools. The certificate requires substantial independent thinking and emphasis is placed on the cultivation of scholarly attitudes and methods while assisting students in meeting the requirements for the State of Florida Teacher Certification. In addition, students will learn the subject matter needed to meet the National Educational Technology Standards for Teachers developed by the International Society for Technology in Education (ISTE).

Several courses are taught online and other courses will be offered on a flexible schedule at the Orlando campus. The Instructional/Educational Technology certificate requires five courses (15 credit hours total).

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

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Institution Codes

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TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits

- Complete the following:
  - EME6613 - Instructional System Design (3)
  - EME6053 - Teaching and Learning with Emerging Technologies (3)
  - EME6405 - Adapting and Integrating Innovative Technologies in Education (3)
  - EME6507 - Multimedia for Education and Training (3)
  - EME6602 - Integration of Technology into the Learning Environments (3)

Grand Total Credits: 15

Interdisciplinary Language and Literacy Intervention Graduate Certificate

College

College of Community Innovation and Education
Department
School of Teacher Education

Program Website
https://ccie.ucf.edu/teachered/exceptional-student-education/

Program Contact Information
Mary Little PhD
Dena Slanda PhD
Exceptional Student Education
Linda I. Rosa-Lugo EdD
College of Health Professions and Sciences
School of Communication Sciences and Disorders
ProjectSPEECH@ucf.edu
Telephone: 407-823-4351
HPA 2-110

Is this program available 100% online?
No

Program Description
The Interdisciplinary Language and Literacy Intervention graduate certificate provides advanced coursework focused on evidence-based knowledge, skills, and resources for individuals who work with students who have high-intensity needs. This collaborative and inter-professional graduate certificate address competencies for an intervention specialist from the Council for Exceptional Students (CEC) and from the American Speech-Language-Hearing Association (ASHA). This certificate is designed to meet the needs of educators and speech-language pathologists who use school-based and classroom instructional data to meet the instructional and intervention needs of all students, including students with high-intensity needs, beyond the typical, initial classroom instruction within a multi-tiered system of supports.

This certificate will provide an advanced, multi-disciplinary theoretical approach and applied knowledge base to experienced educators and speech-language pathologists.

Coursework focuses on knowledge, skills and competencies for professionals working with students within an intervention framework. The Interdisciplinary Language and Literacy Intervention certificate is a multi-disciplinary approach and includes competencies from exceptional student education, communication disorders, reading education, and English as a Second Language (ESOL) education. The graduate courses provide an opportunity for students to complete the Interdisciplinary Language and Literacy Intervention graduate certificate beyond the undergraduate degree. Should a student wish to earn a master's degree, education specialist degree, or doctoral degree, the courses in the certificate could be applied to one of several degree programs in the College of Community Innovation and Education or in the School of Communication Sciences and Disorders (housed in the College of Health Professions and Sciences) with the permission of their advisor.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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Orlando, FL 32816-0112

Institution Codes

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GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - EEX6218 - Diagnostic Assessment and Intervention Planning in Exceptional Education (3)
  - IDS6657 - Professional Collaboration in Language and Literacy (3)
  - RED5517 - Classroom Diagnosis and Development of Reading Proficiencies (3)
  - SPA6843 - Severe Language-Based Reading and Writing Disabilities (3)

Grand Total Credits: 12

Juvenile Justice Leadership Graduate Certificate

College

College of Community Innovation and Education

Department

Department of Criminal Justice

Program Website

https://ccie.ucf.edu/criminaljustice/

Program Contact Information

Eugene Paoline, III PhD
Professor
Eugene.Paoline@ucf.edu
Telephone: 407-823-2603
HS1, RM 321

Elexis Ritz
elexis.ritz@ucf.edu
Telephone: 407-823-6093
HS1 311

Is this program available 100% online?

Yes
Please note: Juvenile Justice Leadership Graduate Certificate may be completed fully online, although not all elective options may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters and be part of another degree seeking program. Only 3 of the 9 credit hours may be taken in a completely online format. International applicants should be aware the program may not offer sufficient on-campus courses for F or J visa holders. Please contact the program for more information before applying. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Juvenile Justice Leadership is designed to provide students with theoretical and practical knowledge in the areas of criminal justice, public administration, and social work.

The juvenile justice system, long understaffed, is facing the continuing problem of increased juvenile crime, high levels of juvenile drug and substance abuse, and debatable programs to rehabilitate delinquent children. Juvenile Justice Leadership is one of the fastest growing career fields in Criminal Justice.

The curriculum for the Juvenile Justice Leadership certificate program consists of two required courses and two elective courses for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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Graduate School Contact

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gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
6 Total Credits

- Complete the following:
  - CJJ6020 - The Juvenile Justice System (3)
  - CCJ6118 - Criminal Justice Organizations (3)

Elective Course
6 Total Credits

- Complete at least 2 of the following:
  - CCJ5015 - The Nature of Crime (3)
  - CCJ6073 - Data Management Systems for Crime Analysis (3)
  - CCJ5456 - The Administration of Justice (3)
  - CJL6568 - Law and Social Control (3)
  - CCJ6106 - Policy Analysis in Criminal Justice (3)
  - PAD6327 - Public Program Evaluation Techniques (3)
  - SOW6712 - Clinical Social Work Practice with Substance Addictions (3)
  - SOW6655 - Child Abuse: Treatment and Prevention (3)
  - SYP6561 - Child Abuse in Society (3)

Grand Total Credits: 12

K-8 Mathematics and Science Education MEd

College
College of Community Innovation and Education

Department
School of Teacher Education

Program Website
https://ccie.ucf.edu/teachered/k-12/

Program Handbook
K-8 Mathematics and Science Education MEd

Program Contact Information

Enrique Ortiz PhD
Associate Professor
enrique.ortiz@ucf.edu
Telephone: 407-823-5222
ED 123 G

Is this program available 100% online?
No

Program Description
The Master of Education in K-8 Mathematics and Science Education program prepares teachers to improve the quality of teaching and learning in mathematics and science in grades K-8.

The K-8 Mathematics and Science Education MEd program requires a minimum of 36 credit hours beyond the bachelor's degree, including 15 credit hours of core courses, 15 credit hours of specialization content pedagogical courses, and six credit hours of thesis work or the nonthesis option, which focuses on either completing and submitting findings of a research project to a refereed journal or developing a portfolio in preparation for National Board Certification for Teachers.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites
A professional Florida teaching certificate in one of the following areas: elementary education, mathematics education (middle school or secondary), or science education (middle school or secondary).

Three years of teaching experience.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Three years of teaching experience.
- Recommendation letter by a school principal.
- A professional Florida teaching certificate in one of the following areas: elementary education, mathematics education (middle school or secondary), or science education (middle school or secondary).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

K-8 Mathematics and Science Education program applications are accepted for admission to the summer term only. For information regarding the Lockheed Martin/UCF Academy for Mathematics and Science please visit http://education.ucf.edu/lmacad/index.cfm.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
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Millican Hall 230
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Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
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ETS PPI: 5233
Degree Requirements

Required Courses
30 Total Credits

- Core
  15 Total Credits
  - Complete the following:
    - EDF6472 - Data-Driven Decision-Making for Instruction (3)
    - EEX6342 - Seminar-Critical Issues in Special Education (3)
    - IDS6937 - Teaching Mathematics and Science Using Reform-Based Practices (3)
    - IDS6939 - Reforming Curriculum in Mathematics and Science Education (3)
    - IDS6516 - Leadership Development for Mathematics and Science Teachers (3)

Specialization
15 Total Credits

- Complete the following:
  - SCE5836 - Space and Physical Science for Educators (3)
  - ISC6146 - Environmental Education for Educators (3)
  - MAE6899 - Seminar in Teaching Mathematics (3)
  - MAE6318 - Current Methods in Elementary School Mathematics (3)
  - MAE6641 - Problem Solving and Critical Thinking Skills (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
  - Earn at least 6 credits from the following types of courses:
    - IDS 6971 - Thesis The College of Graduate Studies Thesis and Dissertation page (https://graduate.ucf.edu/thesis-and-dissertation/) contains information on the university's requirements for dissertation formatting, format review, defenses, final submission, and more. A step-by-step completion guide is also available on the Thesis and Dissertation Services (https://apps.graduate.ucf.edu/ETD_Student_Services/) site. The following requirements must be met by dissertation students in their final term: · Submit a properly formatted file for initial format review by the format review deadline · Submit the Thesis and Dissertation Release Option form well before the defense · Defend by the defense deadline · Receive format approval (if not granted upon initial review) · Submit signed approval form by final submission deadline · Submit final thesis or dissertation document by final submission deadline
  - Nonthesis Option
  - Complete all of the following
    - Complete the following:
      - IDS6910 - Research in Mathematics and Science Education (3)
      - EDG6329 - Quality Teaching Practices (3)
    - Non-thesis scholars will engage in an action research analyzing an issue or challenge in their own classroom teaching practice or school procedures in the areas of mathematics and/or science. An action research project includes the application of research methodologies, literature review, data collection, and data analysis. As part of Capstone Course, the culminating activities are final paper report and poster presentation of the action research project. A research advisor will be selected to collaborate with the scholar in the development of the action research. In this context, action research refers to a wide variety of evaluative, investigative, and analytical research methods designed to diagnose problems or weaknesses (organizational, academic, or instructional) and help teachers develop practical solutions to address them quickly and efficiently. The general goal is to investigate a practical approach that leads to increasingly better results for schools, teachers, or programs. It typically follows a predefined process; for example: 1. identify a problem to be studied, 2. collect data on the problem, 3. organize, analyze, and interpret the data, 4. develop a plan to address the problem, 5. implement the plan, 6. evaluate the results of the actions taken, 7. identify a new problem, and 8. if necessary, repeat the process. Unlike more formal research studies, such as those conducted by universities and published in peer-reviewed scholarly journals, action research is typically conducted by the teachers working school being studied. It involves less formal, prescriptive, or theory-driven research methods, since the goal is to address practical problems in a specific school or classroom, rather than produce independently validated and reproducible findings. It is typically focused on solving or answering a specific question; for example, Why are so many of our ninth graders failing mathematics?

Grand Total Credits: 36

Program Details

Independent Learning

A thesis or action research project is required.
**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120  
Telephone: 407-823-2827  
Appointment Line: 407-823-5285  
Fax: 407-823-5241  
finaid@ucf.edu  
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127  
gradfellowship@ucf.edu  
https://funding.graduate.ucf.edu

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**Local Director of Career and Technical Education Graduate Certificate**

**College**

College of Community Innovation and Education

**Department**

Department of Educational Leadership & Higher Education

**Program Website**

https://ccie.ucf.edu/elhe/career-and-technical-education/

**Program Contact Information**

Lisa Martino, PhD  
Lecturer, CTE Academic Program Coordinator  
lisa.martino@ucf.edu  
Telephone: 407-823-6184  
ED 220C

**Is this program available 100% online?**

Yes

**UCF Online**

**Please note:** Local Director of Career and Technical Education may be completed fully online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is authorized to provide online courses or instruction to students in all states. Refer to State Authorizations for current information.
Program Description

The Local Director of Career and Technical Education Graduate Certificate is an online, flexible, short term program of study that focuses on career and technical education and workforce training administration, supervision, and management competencies. The Certificate is designed for career and technical education (CTE) teachers or corporate trainers with a bachelor's degree who wish to advance their career as a:

- CTE/workforce program director
- CTE/workforce program coordinator
- CTE/workforce manager
- Education development, talent development, organizational development, technical/workforce training
- CTE/workforce education consultant
- CTE/workforce learning and development specialist
- CTE/workforce supervisor
- Or other CTE/workforce administrator-type position.

It is also for students interested in advancing their knowledge in CTE professional education coursework.

This certificate may also, in part, prepare candidates to meet a portion of the State of Florida Department of Education Certification in Local Director of Career and Technical Education coursework requirements. Other requirements for the Florida DOE certification are noted on the FL DOE website.

*This graduate certificate is not an initial professional education certificate program.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor’s Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline. Review the Graduate Certificate Admission Requirements for more information. Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

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Institution Codes
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ETS PPI: 5233
Degree Requirements

Required Courses
15 Total Credits

- Complete the following:
  - ECW5207 - Management of Career Education Programs (3)
  - ECW6105 - Career Education Curriculum Planning and Implementation (3)
  - ECW6205 - Administration of Local Career Education Programs (3)
  - ECW6206 - Supervision in Local Career and Technical Education Programs (3)
  - ECW6695 - School/Community Relations for Career and Technical Education Programs (3)

Grand Total Credits: 15

Marriage, Couple, and Family Therapy Graduate Certificate

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Program Website
https://ccie.ucf.edu/counselored/

Program Contact Information
Sejal Barden PhD
Assistant Professor
Sejal.Barden@ucf.edu
Telephone: 407-823-6106
ED 322H

Is this program available 100% online?
No

Licensure Disclosure
The certificate requires the completion of five graduate courses addressing family systems, working with couples and family therapy theory, and counseling techniques. For many counselors, this certificate will fulfill the academic requirements in order to apply to the Florida Department of Medical Quality Assurance for licensure as a Marriage and Family Therapist. Applicants considering this certificate program should contact their State Licensure Board to verify the courses required. The Marriage, Couple, and Family Therapy Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Marriage-Couple-Family-Therapy-GC.pdf.

Program Description
This program has temporarily suspended admissions effective Spring 2020

The Graduate Certificate in Marriage, Couple and Family Therapy is housed within the Counselor Education Program in the College of Community Innovation and Education. The certificate program is designed to provide advanced training to students in the Counselor Education and Social Work programs and for practicing counselors and therapists working with families, couples, and children.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and field-based experiences in the community. The UCF Community Counseling and Research Center serves as a hub for training and research in the program, with graduate students providing annual services to over 1,400 individuals, couples, and families in the central Florida community.

Master's students in the School of Social Work can also obtain the Graduate Certificate in Marriage, Couple and Family Therapy by taking the required courses for Social Work students, which include content about family theory and assessment and counseling with families as well as a field component. Information about Social Work courses and field courses can be obtained through the School of Social Work.

The Graduate Certificate in Marriage, Couple and Family Therapy requires 15 credit hours. The Practicum in Counselor Education (MHS 6803) and the Counseling Internship (MHS 6830) must be taken in separate semesters. Among the total hours accumulated in these clinical experiences, at least 180 hours of direct client contact must be dedicated to working with couples, families, and unmarried dyads. For Social Work students, the certificate requires 17 credit hours, enrollment in either the part-time or full-time Clinical Field Seminar is acceptable, and all coursework is specific to Social Work.

Total Credit Hours Required: 15-17 Credit Hours Minimum beyond the Bachelor's Degree

2021-2022 Graduate Catalog
Program Prerequisites

Admission is open to students currently enrolled in graduate Counseling, Psychology or Social Work programs at UCF.

Application Requirements

Admission is open to students currently enrolled in graduate Counseling, Psychology or Social Work programs at UCF. Applicants must apply online to the graduate certificate program and official transcripts must be submitted. All requested materials must be submitted by the established deadline.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
15 - 17 Total Credits

- Complete 1 of the following
  - Required
    - Complete all of the following
      - Complete the following:
        - MHS6430 - Family Counseling I (3)
        - MHS6431 - Family Counseling II (3)
        - MHS6440 - Couples Counseling (3)
        - MHS6803 - Practicum in Counselor Education (3)
      - Earn at least 3 credits from the following:
        - MHS6830 - Counseling Internship (1 - 6)

- Required Courses for Social Work Students
  - Complete all of the following
    - Complete the following:
      - SOW5107 - Human Behavior in the Social Environment (3)
      - SOW6612 - Clinical Practice with Families (3)
      - SOW6531 - Full Time MSW Clinical Field Integrative Seminar I (2)
      - SOW6536 - Full Time MSW Clinical Field Integrative Seminar II (2)
      - MHS6440 - Couples Counseling (3)
    - Earn at least 4 credits from the following:
      - SOW6940 - Clinical Field Education (1 - 99)

Grand Total Credits: 15 - 17

Program Details

Part-time clinical courses

**For this certificate program, the following part-time clinical courses meet the 8 hour field seminar sequence:**

- SOW 6561 - Part-Time MSW Clinical Field Integrative Seminar I 2 Credit Hours
- SOW 6562 - Part Time MSW Clinical Field Integrative Seminar II 1 Credit Hours
- SOW 6563 - Part-Time MSW Clinical Field Integrative Seminar III 1 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
- 1st Semester 2 Credit Hours
- 2nd Semester 1 Credit Hour
- 3rd Semester 1 Credit Hour
Marriage, Couple, and Family Therapy MA

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Program Website
https://ccie.ucf.edu/counselored/

Program Handbook
Marriage, Couple, and Family Therapy, MA

Program Contact Information
Sejal Barden PhD
Associate Professor
counsel@ucf.edu
Telephone: 407-823-2401
ED 322H

Is this program available 100% online?
No

Licensure Disclosure
The CACREP accredited Marriage, Couple, and Family Therapy MA program prepares students for licensure in Florida as a Marriage and Family Therapist in order to practice in agencies, private practices, and other settings. Applicants considering this program should contact their State Licensure Board to verify the courses required. The Marriage, Couple, and Family Therapy MA program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Marriage-Couple-Family-Therapy-MA.pdf.

Program Description
The CACREP accredited Marriage, Couple and Family Therapy MA program prepares students for licensure in marriage and family therapy and to practice in agencies, private practices, and other settings.

As part of the program's pragmatic approach to preparing counselors, in addition to classroom studies, all students complete clinical experiences in the UCF Community Counseling and Research Center and field-based experiences in the community. The UCF Community Counseling and Research Center serves as a hub for training and research in the program, with graduate students providing counseling services to children, adolescents, and adults through the provision of individual, couples, and family therapy. The CCRC serves more than 1400 individuals, couples, and families in the central Florida community.

The Marriage, Couple and Family Therapy MA program requires a minimum of 63 credit hours beyond the bachelor's degree, including 6 credit hours of core courses, 45 credit hours of specialization courses (including 3 credit hours of an elective), and 12 credit hours of professional clinical experience.

Total Credit Hours Required: 63 Credit Hours Minimum beyond the Bachelor's Degree
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Résumé.
- Goal statement (see the Program website for additional information about the Goal statement).

The Master’s of Arts in Marriage, Couple and Family Therapy program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

The College of Community Innovation and Education reserves the right to refuse student entrance or terminate a student after admission to the Counselor Education program, if in the judgement of the faculty the student demonstrates unacceptable personal fitness to work in the counseling field with children, youth, and/or adults.

A formal interview is required and will be scheduled after the program admission requirements are met. The interview dates are posted on the Counselor Education Program website. Upon admittance, it is required that students attend the program orientation session that occurs on the Thursday before classes begin in the semester to which the student applied.

**Graduate Application Deadlines**

<table>
<thead>
<tr>
<th>Marriage, Couple, and Family Therapy MA</th>
<th><em>Fall Priority</em></th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<td>Domestic Applicants</td>
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<td>Jan 15</td>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Required Courses
51 Total Credits

Details

Core
6 Total Credits

Details

Complete the following:
- EDF6155 - Lifespan Human Development and Learning (3)
- EDF6481 - Fundamentals of Graduate Research in Education (3)

Specialization
45 Total Credits

Details

Complete all of the following
- Complete the following:
  - MHS5005 - Introduction to the Counseling Profession (3)
  - MHS6430 - Family Counseling I (3)
  - MHS6431 - Family Counseling II (3)
  - MHS6440 - Couples Counseling (3)
  - MHS6070 - Diagnosis and Treatment in Counseling (3)
  - MHS6220 - Individual Psychoeducational Testing I (3)
  - MHS6400 - Theories of Counseling and Personality (3)
  - MHS6401 - Techniques of Counseling (3)
  - MHS6420 - Foundations of Multicultural Counseling (3)
  - MHS6450 - Addictions Counseling (3)
  - MHS6470 - Human Sexuality and Relationships (3)
  - MHS6500 - Group Procedures and Theories in Counseling (3)
  - MHS6702 - Ethical and Legal Issues (3)
  - SDS6347 - Career Development (3)
- Earn at least 3 credits from the following types of courses:
  Elective approved by adviser.

Professional Clinical Experience:
12 Total Credits

Details

Complete all of the following
- The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients. The practicum is conducted on campus in the UCF Community Counseling and Research Center and the internship is conducted at various clinical sites around central Florida. The clinical experiences are comprised of two sections, Practicum and Internship. Both are experiential in nature and are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program to their work with actual clients. The practicum is conducted on campus in the UCF Community Counseling and Research Center and the internship is conducted at various clinical sites around central Florida.
- Earn at least 6 credits from the following:
  - MHS6803 - Practicum in Counselor Education (3)
- Prerequisites for MHS 6803 Practicum in Counselor Education are the following: MHS 5005, MHS 6070, MHS 6400, MHS 6401, MHS 6500, and MHS 6702. A minimum of 27 credit hours are required prior to beginning the practicum.
- Earn at least 6 credits from the following:
  - MHS6830 - Counseling Internship (1 - 6)
- The prerequisite for MHS 6830 Counseling Internship is a "B" or better in all sections of MHS 6803 as well as MHS 6420.

Grand Total Credits: 63
Program Details

Additional Program Requirements

- Achieve at least a GPA of 3.0 in counseling specialization courses.
- Achieve a “B” or better in MHS 5005, MHS 6401, MHS 6803, and MHS 6803.
- Complete a total of 800 hours of clinical experiences, 200 of which will be in the UCF Community Counseling and Research Center and 600 of which are field-based experiences in the community.
- Students in the Marriage, Couple and Family Therapy program must complete 180 hours of marriage and family therapy services (within the 800 total hours of clinical experiences over the course of their practica and internships) in a marriage and family therapy setting.
- Complete a portfolio and receive approval by Counselor Education faculty.
- Complete a professional exit examination.
- Given the experiential, competency, and performance-based nature of the courses taken by Marriage, Couple and Family Therapy students, students are limited to taking a maximum of three (3) courses per semester. However, if students believe they can verify a need to take more than three courses, they should consult with their academic advisor for approval guidelines. Students who have not received prior approval and who register for more than three courses per semester will be administratively dropped from any courses over the maximum load.

Independent Learning

Practica and internships are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program. The internship experience provides students with the practical experience of providing hands-on services for a variety of clients and presenting concerns. Such services may include, but are not limited to, individual, couple, family, and group counseling with children, adolescents, and adults. Client concerns range from developmental and relational concerns to more severe pathology.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Nonprofit Management Graduate Certificate

College

College of Community Innovation and Education

Department

School of Public Administration

Program Website

https://ccie.ucf.edu/public-administration/nonprofit-management/
Program Contact Information

Young-Joo Lee, PhD
Nonprofit Management Director & Associate Professor
Young-Joo.Lee@ucf.edu
Telephone: 407-823-3693

Nasrin Lakhani, MNM
Manager Graduate Advising and Student Support
Nasrin@ucf.edu
Telephone: 407-823-0912

Is this program available 100% online?
Yes

UCF Online

Please note: Nonprofit Management Graduate Certificate may be completed fully online, and newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Nonprofit Management is delivered completely online and offers specialized, graduate-level knowledge in nonprofit management, resources development, strategic planning, volunteerism, and program evaluation. The certificate supports those currently working in the nonprofit sector or those looking for advancement in the nonprofit sector or in organizations that partner with the nonprofit sector.

Credits earned in the certificate program may be applied toward the Master of Nonprofit Management (MNM) degree. However, admission to the MNM degree program has separate requirements from those of the certificate program and students considering continuing into the master's degree should familiarize themselves with admissions requirements, the credit transfer policy and should consult with a faculty adviser early in their certificate program. The Graduate Certificate in Nonprofit Management requires that students complete 18 credit hours. Students must maintain at least a 3.0-grade point average in order to be awarded the Graduate Certificate. The Certificate must be completed within 7 years.

An Out-of-State Graduate Certificate in Nonprofit Management Cohort Track is also offered specifically for students who are not Florida residents and who reside outside of the state of Florida. The Out-of-State Cohort is also delivered completely online, and the curriculum is identical to the Florida resident program. Students in the cohort program pay less than half of the regular out-of-state tuition. Students interested in the Out-of-State cohort should refer to the Out-of-State Graduate Certificate in Nonprofit Management program track.

This program also has 1 track: Nonprofit Management Graduate Certificate, Out of State Cohort Track. Please scroll to the bottom of this page for further details.

The Graduate Certificate in Nonprofit Management program is a completely online; students in this program are expected to have the ability to complete the coursework online. The program requires a minimum of 18 credit hours beyond the bachelor's degree; consisting of 15 credit hours of core courses and 3 credit hours of a restricted elective.

The Certificate program incorporates service learning in some of its courses. Service learning involves students partnering with a local nonprofit organization of their choice to offer technical assistance in a specific area of operation that is covered in their coursework. Service Learning enhances the students' academic experience and presents opportunities for networking. The process is supervised by the instructor and provides benefits to both the organization and the student.

Some of the courses may also involve group work intended to develop leadership abilities while providing an opportunity for the student to show his or her ability to be a team player. Group projects promote important intellectual and social skills and help to prepare students for professional work where teamwork and collaboration are necessary.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will also be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5 from each college/university attended.
- A current, professional résumé.
- Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant’s ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
  - What is your reason for pursuing graduate study in Nonprofit Management, including your future goals and plans?
  - What specific areas of Nonprofit Management interest you?
  - Work and/or Voluntary experience (nonprofit experience is preferred, not required)
- Applicants who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff
ogradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits
- Complete the following:
  - PAD5145 - Volunteerism in Nonprofit Management (3)
  - PAD5146 - Nonprofit Resource Development (3)
  - PAD6142 - Nonprofit Organizations (3)
  - PAD6327 - Public Program Evaluation Techniques (3)
  - PAD6335 - Strategic Planning and Management (3)

Elective Course
3 Total Credits
- Complete at least 1 of the following:
  - PAD5850 - Grant and Contract Management (3)
  - PAD6237 - Ethics and Governance in Nonprofit Management (3)
  - PAD6208 - Nonprofit Financial Management (3)
  - SOW6383 - Social Work Administration (3)

Grand Total Credits: 18
Program Details

Students must achieve a grade of "B-" (80%) or better in every course. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

National Nonprofit Leadership Certificate: The Nonprofit Leadership Alliance represents the achievements of national academic and experiential standards in nonprofit management. Students pursuing the Nonprofit Leadership Certification must meet the Nonprofit Leadership Alliance mandated requirements. An internship is required for students pursuing the National Nonprofit Leadership Certification. Students who provide documentation of at least 300 hours of nonprofit sector experience may have the internship waived.

Nonprofit Management Graduate Certificate - Nonprofit Management Graduate Certificate, Out of State Cohort Track

College
College of Community Innovation and Education

Department
School of Public Administration

Track Website
https://ccie.ucf.edu/public-administration/nonprofit-management/

Track Contact Information

Young-Joo Lee, PhD
Nonprofit Management Director & Associate Professor
Young-Joo.Lee@ucf.edu
Telephone: 407-823-3693

Nasrin Lakhani, MNM
Manager Graduate Advising and Student Support
Nasrin@ucf.edu
Telephone: 407-823-0912

Is this track available 100% online?
Yes

UCF Online

Please note: Nonprofit Management Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information

Track Description

The Out-of-State Cohort in the Graduate Certificate in Nonprofit Management is designed specifically for students who are not Florida residents and who reside outside of the state of Florida. The certificate is delivered completely online and offers specialized, graduate-level knowledge in nonprofit management, resource development, strategic planning, volunteerism, and program evaluation.

The Out-of-State Cohort in the Graduate Certificate in Nonprofit Management is designed specifically for students who are not Florida residents and who reside outside of the state of Florida. The certificate is delivered completely online and offers specialized, graduate-level knowledge in nonprofit management, resource development, strategic planning, volunteerism, and program evaluation. The certificate supports those currently working in the nonprofit sector or those looking for advancement in the nonprofit sector or in organizations that partner with the nonprofit sector. Students in the Out-of-State Cohort pay less than half of the regular out-of-state tuition. Students who are Florida residents who reside in the state of Florida should refer to the Nonprofit Management Certificate program.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.
Graduate Application Deadlines

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<th>Nonprofit Management Graduate Certificate, Out of State Cohort Track</th>
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Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits
- Complete the following:
  - PAD5145 - Volunteerism in Nonprofit Management (3)
  - PAD5146 - Nonprofit Resource Development (3)
  - PAD6142 - Nonprofit Organizations (3)
  - PAD6327 - Public Program Evaluation Techniques (3)
  - PAD6335 - Strategic Planning and Management (3)

Elective Course
3 Total Credits
- Complete at least 1 of the following:
  - PAD5850 - Grant and Contract Management (3)
  - PAD6149 - Nonprofit Administration (3)
  - PAD6167 - Graduate Nonprofit Leadership Seminar (3)
  - PAD6208 - Nonprofit Financial Management (3)
  - SOW6383 - Social Work Administration (3)

Grand Total Credits: **18**

Track Details

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

National Nonprofit Leadership Certificate The Nonprofit Leadership Alliance represents the achievements of national academic and experiential standards in nonprofit management. An internship is also required for students with less than 300 hours of nonprofit sector experience. Students who provide documentation of at least 300 hours of experience in the nonprofit sector may have their internship waived. Students pursuing the Nonprofit Leadership Certification must complete PAD 6167 - Graduate Nonprofit Leadership Seminar as their elective and meet the Nonprofit Leadership Alliance mandated requirements.

Nonprofit Management MNM

College

College of Community Innovation and Education
Is this program available 100% online?
Yes

UCF Online

Please note: Master of Nonprofit Management (MNM) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The nonprofit sector is the fastest growing area of the economy, and the completely online Master of Nonprofit Management MNM program prepares students for careers in this dynamic field. The degree program provides opportunities for students to prepare for employment or to advance their careers as administrators in nonprofit organizations. The program is intended to produce graduates equipped with the management skills and analytical skills needed for successful careers in the nonprofit sector.

An Out of State Master in Nonprofit Management Cohort Track is available for students who are not Florida residents and who reside outside the state of Florida. The admission standards and degree requirements are the same as the traditional program. Students interested in the out-of-state Master of Nonprofit Management cohort should refer to that track for more information.

A Public Administration MPA Dual Degree Track is also available. Please scroll to the bottom of this page for further details on these Tracks.

The Master of Nonprofit Management (MNM) program is offered completely online. Some elective courses may be offered face-to-face, however, students in this program are expected to have the ability to complete the coursework online. The program requires 30 credit hours of core courses, 3 credit hours of restricted electives and 3 of general electives.

The MNM program incorporates service learning in some of its courses. Service learning is hands-on learning that provides real-life experience in executing tangible projects such as strategic plans, grant proposals, and volunteer management case studies. It enhances the student's understanding of the course core concepts, helps develop leadership skills and provides networking opportunities with a community partner.

Some of the courses also involve group work intended to develop leadership abilities while providing an opportunity for the student to show his or her ability to be a team player. Group projects promote important intellectual and social skills and help to prepare students for professional work where teamwork and collaboration are necessary.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the [general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation are required. Letters of recommendation must specifically address the prospective student's ability to succeed in graduate coursework and his or her work ethic. Recommendation letters from professors are preferred, however, letters from supervisors are also acceptable.
- Résumé: The most current, professional résumé should be provided.
- Statement of goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
  - What is your reason for pursuing graduate study in Nonprofit Management including your future goals and plans?
  - What specific areas of Nonprofit Management interest you?
  - Nonprofit sector experience is preferred, not required.
  - What makes you a special candidate for admission to this program?
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

All requested material must be submitted by the established deadline date. Material received after the established deadline may not be considered. Admission to this program is competitive; applicants meeting the minimum admission requirements are not guaranteed admission to this program.

Students are expected to be computer literate upon entry to the program. This program is completely online so computer skills and internet access are necessary for this program.

A limited number of students who do not meet these requirements may be admitted on a provisional basis. These students must demonstrate proven nonprofit sector experience, present recommendations from either academic or professional advisers, and provide a clear statement of educational goals.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Nonprofit Management MNM</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

The Spring 2022 Application Deadline has been extended until December 1, 2021.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
27 Total Credits

◆ Complete the following:
  - PAD5145 - Volunteerism in Nonprofit Management (3)
  - PAD5146 - Nonprofit Resource Development (3)
  - PAD5850 - Grant and Contract Management (3)
  - PAD6142 - Nonprofit Organizations (3)
  - PAD6208 - Nonprofit Financial Management (3)
  - PAD6237 - Ethics and Governance in Nonprofit Management (3)
  - PAD6335 - Strategic Planning and Management (3)
  - PAD6417 - Human Resource Management (3)
  - PAD6327 - Public Program Evaluation Techniques (3)

Capstone
3 Total Credits

◆ This course is the capstone learning experience for the program requiring the development of a portfolio and analysis that demonstrate the student's mastery of the NASPAA Universal Competencies. The capstone course is offered only in fall and spring semesters. Must be taken in the final semester, core courses are prerequisites

Course
3 Total Credits

◆ Complete the following:
  - PAD6149 - Nonprofit Administration (3)

Restricted Elective
3 Total Credits

◆ Earn at least 3 credits from the following types of courses:
  This elective must be a UCF Public Administration 6000-level course that is chosen after consultation with the student's academic adviser.

Electives Option
3 Total Credits

◆ Earn at least 3 credits from the following types of courses:
  Students take one elective course in addition to the restricted elective (three credit hours each) with the prior approval of the program director. The elective courses are to be in the student's area of interest, such as public administration, criminal justice, health care, social work or the arts. The MNM program does not accept 4000-level courses.

Grand Total Credits: 36

Program Details

Additional Program Requirements

Students must achieve a grade of "B-" (80%) or better in every course listed under required courses. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher. The final culminating experience for those enrolled in the Master of Nonprofit Management results in students taking and satisfactorily completing the capstone course, PAD 6149 - Nonprofit Administration.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry, dialog and service learning. Students are encouraged to engage in research projects, scholarly papers, internships, and presentations at professional conferences that contribute to their self development. The final culminating experience for those enrolled in the Master of Nonprofit Management results in students taking and satisfactorily completing the Nonprofit Administration (PAD 6149).

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
grdfellowship@ucf.edu
https://funding.graduate.ucf.edu

Nonprofit Management MNM - Nonprofit Management MNM, Out of State Cohort Track

College
College of Community Innovation and Education

Department
School of Public Administration

Track Website
https://ccie.ucf.edu/public-administration/nonprofit-management/

Track Contact Information
Young-joo Lee, PhD
Associate Professor
Director, Nonprofit Programs
Young-joo.Lee@ucf.edu
DPAC 448C

Nasrin Lakhan, MNM
Director, Advising and Student Support
nasrin.lakhani@ucf.edu
Telephone: 407-823-1912

Is this track available 100% online?
Yes

UCF Online
Please note: Master of Nonprofit Management (MNM) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

2021-2022 Graduate Catalog
Track Description

The nonprofit sector is the fastest growing area of the economy, and the completely online out-of-state cohort track in the Master of Nonprofit Management program prepares students for careers in this dynamic field.

The degree program provides opportunities for students to prepare for employment or to advance their careers as administrators in nonprofit organizations. The program is intended to produce graduates equipped with the management skills and analytical skills needed for successful careers in the nonprofit sector.

The Master in Nonprofit Management Cohort Track is designed specifically for students who are not Florida residents who reside outside the state of Florida. The admission standards and degree requirements are the same as the traditional program. Students interested in the out-of-state Master of Nonprofit Management cohort should contact the Nonprofit Management program director or advisor at the School of Public Administration at (407) 823-2604.

For Non-Florida Residents, Out-of-State Students

The Cohort track in the Master in Nonprofit Management is designed specifically for students who are not Florida residents. The admission standards and degree requirements are the same as the traditional program. Students interested in the out-of-state Master of Nonprofit Management cohort should contact the School of Public Administration.

The Master of Nonprofit Management (MNM) program incorporates service learning in some of its courses. Service learning is hands-on learning that provides real-life experience in executing a tangible project such as strategic plans, grant proposals, and volunteer management case studies. It enhances the student's understanding of the course core concepts, helps develop leadership skills and provides a networking opportunity with a community partner.

Some of the courses also involve group work intended to develop leadership abilities while providing an opportunity for the student to show his or her ability to be a team player. Group projects promote important intellectual and social skills and help to prepare students for professional work where teamwork and collaboration are necessary.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript meeting the minimum GPA requirement of 3.0, in a sealed envelope, from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation specifically for the MNM program. Letters of recommendation must specifically address the prospective student's ability to succeed in graduate coursework and his or her work ethic. Recommendation letters from professors are preferred, however, letters from supervisors are also acceptable.
- Résumé: The most current, professional résumé should be provided.
- Statement of goals: This is a key component of the admission review process and serves as an example of the applicant’s ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
  - Reason for pursuing graduate study in Nonprofit Management including future goals and plans.
  - Specific areas of Nonprofit Management of interest to the applicant.
  - Nonprofit sector experience is preferred, not required.
  - What makes the applicant a special candidate for admission to this program.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission to this degree is competitive; applicants meeting the minimum university and/or program application requirements are not guaranteed admission to the program.

All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

This program is completely online. Students are expected to be computer literate upon entry to the program.

Graduate Application Deadlines

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<tr>
<th>Out of State Cohort</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
27 Total Credits

- Complete the following:
  - PAD5145 - Volunteerism in Nonprofit Management (3)
  - PAD5146 - Nonprofit Resource Development (3)
  - PAD5850 - Grant and Contract Management (3)
  - PAD6142 - Nonprofit Organizations (3)
  - PAD6208 - Nonprofit Financial Management (3)
  - PAD6237 - Ethics and Governance in Nonprofit Management (3)
  - PAD6327 - Public Program Evaluation Techniques (3)
  - PAD6335 - Strategic Planning and Management (3)
  - PAD6417 - Human Resource Management (3)

Capstone
3 Total Credits

- This course is the capstone learning experience for the program requiring the development of a portfolio and analysis that demonstrate the student's mastery of the NASPAA Universal Competencies. The capstone course is offered only in fall and spring semesters. Must be taken in the final semester, core courses are prerequisites

Course
3 Total Credits

- Complete the following:
  - PAD6149 - Nonprofit Administration (3)

Restricted Elective
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - This elective must be a UCF Public Administration 6000-level course that is chosen after consultation with the student's academic adviser.

Electives Option
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - Students take one elective course in addition to the restricted elective (three credit hours each) with the prior approval of the program director. The elective courses are to be in the student's area of interest, such as public administration, criminal justice, health care, social work or the arts. The MNM program does not accept 4000-level courses.

Grand Total Credits: 36
Track Details

Students must achieve a grade of "B-" (80%) or better in every course listed under required courses. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

National Nonprofit Leadership Certificate Option

The Nonprofit Leadership Alliance represents the achievements of national academic and experiential standards in nonprofit management. Students pursuing the Nonprofit Leadership Certification must meet the Nonprofit Leadership Alliance mandated requirements, including a 300-hour internship or documentation of employment history in the nonprofit sector. Please contact Program Director Dr. Stephanie Krick for additional requirements.

- Internship* 3 credit hours
- Elective 3 credit hours

*An internship is required for students with less than 300 hours of nonprofit sector experience. Students who provide documentation of at least 300 hours of experience in the nonprofit sector may have their internship waived, but must complete an approved elective (3 credit hours) in place of the internship. Work experience does not count for credit toward the MNM program.

Cost Per Credit Hour

For students in this Master of Nonprofit Management Cohort, the cost per credit hour is $440.62 for out-of-state students. Tuition is subject to change.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Nonprofit Management MNM - Nonprofit Management MNM, Public Administration MPA Dual Degree Track

College

College of Community Innovation and Education

Department

School of Public Administration

Track Website

https://ccie.ucf.edu/public-administration/nonprofit-management/
**Track Contact Information**

**Young-oo Lee, PhD (MNM Program)**  
Associate Professor  
Director, Nonprofit Programs  
Young-oo.Lee@ucf.edu  
DPAC 448C

**Nasrin Lakhani, MNM**  
Director, Graduate Advising and Student Support  
nasrin.lakhani@ucf.edu  
Telephone: 407-823-0912

**Is this track available 100% online?**

Yes

**UCF Online**

**Please note:** Nonprofit Management (MNM) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit [http://global.ucf.edu/](http://global.ucf.edu/). If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to [State Restrictions](#) for current information.

**Track Description**

The Nonprofit Management MNM - Public Administration MPA Dual Degree Track provides the opportunity for students to earn graduate degrees from two academic programs, the Master of Nonprofit Management and the Master of Public Administration, concurrently.

Students successfully completing this MNM/MPA Dual Degree program will have the skills and analytical techniques for successful careers in both the public and nonprofit sectors. The program emphasizes nonprofit management and public administration research, theory, policy and organizational administration to prepare future public service organizational leaders in public, nonprofit, social service, and private organizations. After successful completion of the MNM/MPA Dual Degree program, students will receive two diplomas - one for the Nonprofit Management MNM degree and one for the Public Administration MPA degree.

Students seeking admission to the MNM/MPA Dual Degree program should apply directly to the Dual Degree track of either the Public Administration MPA program or the Nonprofit Management MNM program. Only one application will be required. If admitted, the student will be active in the Dual Degree tracks of both the Public Administration MPA and the Nonprofit Management MNM programs.

Students previously admitted to the Public Administration MPA or the Nonprofit Management MNM program should consult with their adviser prior to completing 18 credit hours if interested in the MNM/MPA Dual Degree program.

The dual degree track (Master of Nonprofit Management/Master of Public Administration) consists of 54 credit hours. Each student completes all of the core courses for each program with 18 required core courses (54 credit hours), including the research methods and statistics courses (6 credit hours) and capstone courses from each program (6 credit hours).

Courses and credit hours used for undergraduate degrees cannot be counted toward the MPA/MNM track, except for Senior Scholar students who, with the permission of the MPA/MNM program director, may use up to 9 credit hours of graduate coursework in both their undergraduate degree and the dual degree program. No undergraduate-level courses will be accepted in the MPA/MNM dual degree track.

The dual degree program incorporates service learning in some of its courses. Service learning is hands-on learning that provides real-life experience in executing tangible projects such as strategic plans, grant proposals, and volunteer management case studies. It enhances the student's understanding of the course core concepts, helps develop leadership skills and provides a networking opportunity with a community partner.

**Total Credit Hours Required: 54 Credit Hours Minimum beyond the Bachelor's Degree**
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation. Letters of recommendation must specifically address the applicant’s ability to succeed in graduate coursework and his or her work ethic. Recommendation letters from professors are preferred, however, letters from supervisors are also acceptable.
- Résumé: The most current, professional resume should be provided.
- Statement of goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
  - Reason for pursuing graduate study in Public Administration and Nonprofit Management, including future goals and plans.
  - Specific areas of Public Administration and Nonprofit Management of interest.
  - Relevant experience, paid or as a volunteer (required).
  - What makes the applicant a special candidate for admission to this limited access program.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All International students must meet university minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.

Admission to this dual degree option is limited; applicants meeting the minimum university and/or program application requirements are not guaranteed admission to the program.

All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

Much of the coursework for this program will be online. Students are expected to be computer literate upon entry to the program and to have access to the internet.

**Graduate Application Deadlines**

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</table>

**Application Deadlines Notes**

* Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

- GRE: 5233  
- GMAT: RZT-HT-58  
- TOEFL: 5233  
- ETS PPI: 5233
**Degree Requirements**

Core
42 Total Credits

- Complete the following:
  - PAD5145 - Volunteerism in Nonprofit Management (3)
  - PAD5146 - Nonprofit Resource Development (3)
  - PAD5850 - Grant and Contract Management (3)
  - PAD6035 - Public Administration in the Policy Process (3)
  - PAD6037 - Public Organization Management (3)
  - PAD6053 - Public Administrators in the Governance Process (3)
  - PAD6142 - Nonprofit Organizations (3)
  - PAD6207 - Public Financial Management (3)
  - PAD6208 - Nonprofit Financial Management (3)
  - PAD6227 - Public Budgeting (3)
  - PAD6237 - Ethics and Governance in Nonprofit Management (3)
  - PAD6327 - Public Program Evaluation Techniques (3)
  - PAD6335 - Strategic Planning and Management (3)
  - PAD6417 - Human Resource Management (3)

Research Methods/Statistics Core Requirements
6 Total Credits

- Complete the following:
  - PAD6700 - Research Methods in Public Administration (3)
  - PAD6701 - Analytical Techniques for Public Administration (3)

Capstone Core Requirements
6 Total Credits

- Students will engage in a capstone experience for both the MPA and the MNM programs that builds upon the knowledge and skills gained from completing the core courses. Students will complete this requirement through enrollment in PAD 6149 - Nonprofit Administration and PAD 6062 - Advanced Concepts and Applications in Public Administration. Capstone courses may only be taken following the completion of all core courses. Capstone courses are only offered in fall and spring semesters.

Courses
6 Total Credits

- Complete the following:
  - PAD6062 - Advanced Concepts and Applications in Public Administration (3)
  - PAD6149 - Nonprofit Administration (3)

Grand Total Credits: **54**

**Track Details**

**Additional Program Requirements**

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements and in the Capstone courses PAD 6149 and PAD 6062. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

**Independent Learning**

Independent learning is demonstrated throughout the curriculum, through the process of inquiry and dialogue. Tangible projects, such as research scholarly papers, internships, and the capstone experience also contribute to the self-development of MPA students. The research study and final report in the Capstone Experience will focus on reviewing and analyzing contemporary research in a student’s particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area. The capstone courses, PAD 6062 and PAD 6149, provide independent learning experience.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

2021-2022 Graduate Catalog
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Play Therapy Graduate Certificate

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Program Website
https://ccie.ucf.edu/cesp/counselored/

Program Contact Information
Dalena Dillman Taylor PhD, LMHC, RPT-S
Associate Professor
dalena.taylor@ucf.edu
Telephone: 407-823-6106
ED 322-R

Is this program available 100% online?
No

Licensure Disclosure
The Play Therapy Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Play-Therapy-GC.pdf.

Program Description
The Graduate Certificate in Play Therapy is housed within the Counselor Education program in the College of Community Innovation and Education. The certificate program is designed to provide advanced training to students in the Counselor Education program and for practicing counselors and therapists working with children and adolescents.

The Play Therapy Graduate Certificate does not directly certify individuals in Play Therapy; however, it can be listed as a Graduate Certificate in Play Therapy as part of one's credentials. The educational courses are designed toward credentials to be registered as a play therapist. Applicants should also contact the Association for Play Therapy to verify the courses needed to be registered as a play therapist.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Master's Degree

Program Prerequisites
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF or those currently enrolled in or possessing a master's degree in counseling or a related field.

Application Requirements
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF or those currently enrolled in or possessing a master's degree in counseling or a related field. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline. The Play Therapy Certificate program admits twice per year in the spring and summer terms only.

Individuals seeking national certification through the Association of Play Therapy Incorporated (APT) must obtain a master's degree in counseling or a related field and possess a state license in Mental Health Counseling, Marriage and Family Therapy, or Social Work. For additional play therapy certification requirements, please consult the APT website at www.a4pt.org.
Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Play Therapy Graduate Certificate</th>
<th>*Fall Priority</th>
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Graduate School Contact

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gradadmissions@ucf.edu
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - MHS6421 - Foundations of Play Therapy and Expressive Arts (3)
  - MHS6422 - Advanced Theories and Techniques of Play Therapy (3)
  - MHS6403 - Group and Family Play Therapy (3)
  - MHS6424 - Filial Therapy (3)

Grand Total Credits: 12

Police Leadership Graduate Certificate

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Program Website
https://ccie.ucf.edu/criminaljustice/

Program Contact Information

Eugene Paoline, III PhD
Professor
Eugene.Paoline@ucf.edu
Telephone: 407-823-4946
HS1, RM 321

Elelis Ritz
elexis.ritz@ucf.edu
Telephone: 407-823-6093
HS1 311

Is this program available 100% online?
Yes
UCF Online

Please note: Police Leadership Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Police Leadership provides a theoretical and practical knowledge base for law enforcement executives in criminal justice, public administration or social work.

The Graduate Certificate in Police Leadership is designed to provide a theoretical and practical knowledge base for the law enforcement executive in criminal justice, public administration or social work.

Municipalities, county governments, and state agencies have been working to develop new technologies, cooperative business and government relationships, and new ways of fighting and deterring criminal behavior. The police manager, who previously had been concerned only with issues involving statutes, policies, and local jurisdictional issues, must now be concerned with human resource and management issues, employee assistance programs, ethical issues, and local, state, federal, and international government relations.

Students in the Police Leadership certificate must complete two required courses, one restricted elective and one course from the list of approved unrestricted electives, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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</table>

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
6 Total Credits

- Complete the following:
  - CJE5021 - Foundations of Law Enforcement (3)
  - CCJ6106 - Policy Analysis in Criminal Justice (3)

Elective Courses
6 Total Credits

- Complete all of the following
  - Complete at least 1 of the following:
    - CCJ6118 - Criminal Justice Organizations (3)
    - CJL6568 - Law and Social Control (3)
    - PAD5807 - Local Government Operations (3)
    - PAD6037 - Public Organization Management (3)
    - PAD6327 - Public Program Evaluation Techniques (3)
  - PD 6327 is an advanced program evaluation course. Those without a background in Public Administration are discouraged from enrolling in this course.
  - Complete at least 1 of the following:
    - CCJ5015 - The Nature of Crime (3)
    - CCJ5456 - The Administration of Justice (3)
    - CCJ6431 - Leadership and Ethics in Criminal Justice (3)
    - PAD5041 - Ethics and Values in Public Administration (3)
    - PAD6035 - Public Administration in the Policy Process (3)
    - PAD6417 - Human Resource Management (3)
  - PAD 6417 has a prerequisite of PAD 6700. Contact the Public Administration department for an override.

Grand Total Credits: 12

Prekindergarten Disabilities Graduate Certificate

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Program Website
https://ccie.ucf.edu/teachered/exceptional-student-education/

Program Contact Information
Mary Little PhD
Professor
mary.little@ucf.edu
Telephone: 407-823-3275
ED 315J

Is this program available 100% online?
Yes

UCF Online

Please note: Prekindergarten Disabilities Graduate Certificate may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Licensure Disclosure

The Prekindergarten Disabilities Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Prekindergarten-Disabilities-GC.pdf.

Program Description

The Graduate Certificate in Prekindergarten (Pre-K) Disabilities prepares graduate students to teach pre-kindergarten students with disabilities.

The Graduate Certificate in Prekindergarten (Pre-K) Disabilities is designed to provide additional knowledge and skills for professionals to meet the requirements for the Pre-K Disabilities ESE Endorsement. The four graduate courses focus on knowledge, skills, and competencies for working with children birth to age 5 with disabilities, developmental delays and/or at-risk conditions. They can be added to current teaching certification in any exceptional education field, primary education, elementary education (K-6), and/or early childhood education. Pending state approval, persons holding any of the Florida teaching certifications listed may apply the four certificate courses toward the State Prekindergarten (Pre-K) Endorsement (Administrative Rule 6A-4.01792).

Tuition support for these courses is available for eligible candidates through the Pre-K Disabilities Endorsement Tuition Support Program from the Florida Department of Education, Bureau of Exceptional Education and Student Support Services. More information is available at https://florida-ese.org/tuition-support.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Admission is open to those with a bachelor’s degree in exceptional education or primary education from a regionally accredited institution, a master’s degree in varying exceptionalities or primary education from a regionally accredited institution, or if an individual has shown evidence of graduate course work in one of these areas: exceptional student education, preschool education (0-4), primary education (K-3), pre-kindergarten/primary education (PK-3), or early childhood education.

Application Requirements

Admission is open to those with a bachelor’s degree in exceptional education or primary education from a regionally accredited institution, a master’s degree in varying exceptionalities or primary education from a regionally accredited institution, or if an individual has shown evidence of graduate course work in one of these areas: exceptional student education, preschool education (0-4), primary education (K-3), pre-kindergarten/primary education (PK-3), or early childhood education.

An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - EEX5702 - Planning Curriculum for Pre-Kindergarten Children with Disabilities (3)
  - EEX5750 - Communication with Parents and Agencies (3)
  - EEX6017 - Typical and Atypical Applied Child Development (3)
  - EEX6222 - Observation and Assessment of Young Children (3)

Grand Total Credits: 12

Public Administration Graduate Certificate

College
College of Community Innovation and Education

Department
School of Public Administration

Program Website
https://ccie.ucf.edu/public-administration/public-administration/graduate-certificate-public-administration/

Program Contact Information

Abdul-Akeem Sadiq, PhD
Associate Professor
Director, Public Administration Programs
Abdul-akeem.sadiq@ucf.edu
Telephone: 407-823-3925

Edlira Dursun, MPA, MNM
Graduate Adviser, MPA, MPP
Edlira.dursun@ucf.edu
Telephone: 407-823-1139
DPAC 446B

Is this program available 100% online?
Yes

UCF Online

Please note: Public Administration Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Public Administration is designed to provide students with enhanced knowledge and skills in public service. This program is offered completely online.

The Graduate Certificate in Public Administration provides graduate-level continuing education for both in-service and pre-career students. The program emphasizes the managerial skills essential for local government programs in an evolving metropolitan environment. The knowledge gained can strengthen the student's professional standing and help open doors to managerial and support positions.

Credits earned in the certificate program may be applied toward the Master of Public Administration (MPA) degree. However, admission to the MPA degree program has separate requirements from those of the certificate program and students considering continuing into the master's degree should familiarize themselves with credit transfer policy and should consult with the academic advisor early in their certificate program. The Graduate Certificate in Public Administration requires that students complete 18 credit hours. Students must maintain at least a 3.0 grade point average in order to be awarded the Graduate Certificate. The certificate must be completed within seven years.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

2021-2022 Graduate Catalog
Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5, in a sealed envelope, from each college/university attended.
- A current, professional résumé.
- Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
  - Personal background and career aspirations in public service.
  - Reason for pursuing graduate study in public administration, including future career goals and plans.
  - Specific areas of public administration that interest you.
- Applicants who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

Graduate Application Deadlines

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Application Deadlines Notes

*This program has reached its maximum capacity and is not accepting new applications for spring 2022. The next available admit semester is Fall 2022.*

Graduate School Contact

Brandon Ruff  
gradmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete the following:
  - PAD6700 - Research Methods in Public Administration (3)
  - PAD6035 - Public Administration in the Policy Process (3)
  - PAD6037 - Public Organization Management (3)
  - PAD6053 - Public Administrators in the Governance Process (3)
  - PAD6227 - Public Budgeting (3)
  - PAD6417 - Human Resource Management (3)

Grand Total Credits: 18
Program Details

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Public Administration MPA

College

College of Community Innovation and Education

Department

School of Public Administration

Program Website

https://ccie.ucf.edu/public-administration/

Program Handbook

Public Administration MPA

Program Contact Information

Abdul-Akeem Sadiq, PhD
Associate Professor
Director, Public Administration Programs
Abdul-akeem.sadiq@ucf.edu
Telephone: 407-823-3925

Edlira Dursun, MPA, MNM
Graduate Adviser, MPA, MPP
Edlira.dursun@ucf.edu
Telephone: 407-823-1139
DPAC 446B

Is this program available 100% online?

Yes

UCF Online

Please note: Public Administration (MPA) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Master of Public Administration (MPA) program is accredited by the Network of Schools of Public Policy, Affairs and Administration (NASPAA) and nationally ranked by U.S. News and World Report.

The program provides exciting opportunities for students to prepare for employment or advance their careers in public and nonprofit organizations.

This degree has 2 tracks: Criminal Justice MS Dual Degree Track and Nonprofit Management MNM Dual Degree Track. Please scroll to the bottom of this page for further details on these Tracks.
Application Requirements

For information on general UCF graduate admission requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The MPA program is offered as either a campus-based classroom (face-to-face) program or a completely online program. Applicants must select one option at the time of admission. Admission requirements and the admission process is the same regardless of which option the applicant chooses.

Admission is open to those with a bachelor's degree from a regionally accredited institution with a minimum overall undergraduate GPA of 3.0 or better (on a 4.0 scale) or in the last 60 hours. Students must submit all required materials by the established deadline. Materials received after the established deadline may not be considered. Admission to this graduate program is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation specifically for the MPA program evaluating scholarly and professional capacity. Letters from professors from the colleges/universities attended are preferred, but if that is not feasible, letters from current or past supervisors will be accepted. The recommender must address the applicant's work ethic and ability to succeed at graduate-level academic work.
- Current professional résumé including public service experience (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
  - Personal background and career aspirations in public service.
  - Reason for pursuing graduate study in public administration, including future career goals and plans.
  - Specific areas of public administration that interests you.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All international students must meet the university’s minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.

A limited number of students who do not meet the GPA requirements may be admitted on a provisional basis. These students must demonstrate Public Administration experience and provide a clear statement of educational goals.

Graduate Application Deadlines

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Application Deadlines Notes

This program has reached its maximum capacity and is not accepting new applications for spring 2022. The next available admit semester is Fall 2022.

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core (See Program Details for Course Prerequisites)
27 Total Credits

- Complete the following:
  - PAD6035 - Public Administration in the Policy Process (3)
  - PAD6037 - Public Organization Management (3)
  - PAD6053 - Public Administrators in the Governance Process (3)
  - PAD6700 - Research Methods in Public Administration (3)
  - PAD6701 - Analytical Techniques for Public Administration (3)
  - PAD6227 - Public Budgeting (3)
  - PAD6207 - Public Financial Management (3)
  - PAD6417 - Human Resource Management (3)
  - PAD6335 - Strategic Planning and Management (3)

Capstone
3 Total Credits

- Students will engage in a capstone experience that builds upon the knowledge and skills gained from completing the core courses in the MPA program. Students will complete this requirement through enrollment in PAD 6062 - Advanced Concepts and Applications in Public Administration. PAD 6062 is offered in fall and spring semesters only and may be taken following the completion of all core courses.

Course
3 Total Credits

- Complete the following:
  - PAD6062 - Advanced Concepts and Applications in Public Administration (3)

Electives (See Program Details for more information)
12 Total Credits

- Earn at least 12 credits from the following:
  - PAD6826 - Urban Policy and Regional Governance (3)
  - PAD5186 - Policy Advocacy for Social Justice (3)
  - PAD5887 - Energy Policy (3)
  - PAD5930 - Global Cities (3)
  - PAD6439 - Leadership in Public Service (3)
  - PAD6836 - Comparative Global Public Administration (3)
  - PAD6934 - Special Issues in Public Administration (3)
  - PAD6946 - Internship (3)
  - PAD6825 - Cross-Sectoral Governance (3)
  - PAD6705 - Public Sector Communications (3)

Grand Total Credits: 42
Program Details

Core Course Prerequisites

- PAD 6701 - Analytical Techniques for Public Administration - Prerequisite: PAD 6700
- PAD 6227 - Public Budgeting - Prerequisite PAD 6700
- PAD 6207 - Public Financial Management - Prerequisite PAD 6700 & PAD 6227

Electives Information

Elective courses offered within the School of Public Administration provide an emphasis on state and local governments; however, other emphases may be developed in consultation with the Program Director and Academic Advisor. With prior approval from the MPA Program Director, up to 6 credit hours of elective course work may be taken from outside the school. Students must show that elective courses taken outside of the school directly support a career in public administration. The MPA program of study does not accept undergraduate-level courses.

Students interested in a professional management career may take elective courses from the School of Public Administration's graduate certificate programs in Public Budgeting and Finance, Public Policy Analysis, Nonprofit Management, Fundraising, Urban and Regional Planning, Research Administration, and Emergency Management and Homeland Security to enhance their managerial skills. Any course offered by the school of Public Administration, a PAD prefix course, may be used as an elective for this program. Students interested in a research career can work with the Program Director and Academic Advisor to take advanced research courses to strengthen their analytical skills.

Students without practical administrative experience in the public sector are strongly advised to complete an internship (3 credit hours) as part of their electives.

The courses listed in the "Electives" section above and other PAD courses in the catalog may be used as program electives.

Additional Program Requirements

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements and in the Capstone Experience (PAD 6062).

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Students are expected to be computer literate and have computer internet access upon entry to the program.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry, dialogue and service learning. Tangible projects such as scholarly research, papers, internships and the capstone experience also contribute to the self-development of MPA students. The research paper and Learning and Professional Development Portfolio in the Capstone Experience focus on reviewing and analyzing contemporary issues in the context of real-world applications.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Public Administration MPA - Public Administration MPA, Criminal Justice MS Dual Degree Track

2021-2022 Graduate Catalog
College
College of Community Innovation and Education

Department
School of Public Administration

Track Website
https://ccie.ucf.edu/public-administration/

Track Handbook
Public Administration MPA, Criminal Justice MS Dual Degree Track

Track Contact Information
Abdul-Akeem Sadiq, PhD
Associate Professor
Director, Public Administration Programs
Abdul-akeem.sadiq@ucf.edu
Telephone: 407-823-3925

Edlira Dursun, MPA, MNM
Graduate Adviser, MPA, MPP Programs
Edlira.dursun@ucf.edu
Telephone: 407-823-1139
DPAC 446B

Is this track available 100% online?
Yes

UCF Online
Please note: Public Administration (MPA) may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Track Description
The Public Administration MPA, Criminal Justice MS Dual Degree Track provides the opportunity for students to earn graduate degrees from two academic programs, the Master of Public Administration and Master of Science in Criminal Justice, concurrently.

Students successfully completing this MPA/MSCJ dual degree program will have the skills and analytical techniques for successful careers in both public administration and criminal justice. After successful completion of the MPA/MSCJ dual degree program, students will receive two diplomas, one for Public Administration MPA and the other for Criminal Justice MS.

The dual degree track (Master of Public Administration / Master of Criminal Justice) consists of 51 credit hours. Each student completes a core of 11 courses (33 credit hours), two research methods and statistics courses (6 credit hours), two electives (6 credit hours), and a capstone experience of two courses (6 credit hours).

Total Credit Hours Required: 51 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admission requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation specifically for the MPA/Criminal Justice MS program evaluating scholarly and professional capacity. Letters from professors from the colleges/universities attended are preferred, but if that is not feasible, letters from current or past supervisors will be accepted. The recommender must address the applicant's work ethic and ability to succeed at graduate-level academic work.
- Current professional résumé including public service experience (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
  - Personal background and career aspirations in public service.
  - Reason for pursuing graduate study in public administration, including future career goals and plans.
  - Specific areas of public administration that interests you.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All international students must meet university minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.

Admission to this degree is competitive; applicants meeting the minimum university and/or program application requirements are not guaranteed admission to the program. All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

Graduate Application Deadlines

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<th>Criminal Justice MS Dual Degree</th>
<th>*Fall Priority</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core
33 Total Credits

- Complete the following:
  - CCJ5015 - The Nature of Crime (3)
  - CCJ5456 - The Administration of Justice (3)
  - CCJ6106 - Policy Analysis in Criminal Justice (3)
  - CCJ6118 - Criminal Justice Organizations (3)
  - PAD6035 - Public Administration in the Policy Process (3)
  - PAD6037 - Public Organization Management (3)
  - PAD6053 - Public Administrators in the Governance Process (3)
  - PAD6207 - Public Financial Management (3)
  - PAD6227 - Public Budgeting (3)
  - PAD6335 - Strategic Planning and Management (3)
  - PAD6417 - Human Resource Management (3)

Research Methods/Statistics
6 Total Credits

- Complete all of the following
  - Complete at least 1 of the following:
    - PAD6700 - Research Methods in Public Administration (3)
    - PAD6701 - Analytical Techniques for Public Administration (3)
  - Complete at least 1 of the following:
    - CCJ6704 - Research Methods in Criminal Justice (3)
    - CCJ6706 - Data Analysis in Criminal Justice I (3)

Capstone
6 Total Credits

- MPA Capstone course, PAD 6062, is offered in fall and spring semesters only and may be completed after all MPA core courses.

Courses
6 Total Credits

- Complete the following:
  - PAD6062 - Advanced Concepts and Applications in Public Administration (3)
  - CJE6718 - Proseminar in Criminal Justice (3)

Electives
6 Total Credits

- Complete at least 2 of the following:
  - CJC5020 - Foundations of Corrections (3)
  - CJE5021 - Foundations of Law Enforcement (3)
  - CJ6020 - The Juvenile Justice System (3)
  - CJL5658 - Law and Social Control (3)
  - CJL5520 - American Criminal Courts (3)

Grand Total Credits: 51

Track Details

Additional Program Requirements

Students must achieve a grade of “B” or higher in every CCJ/CJE course and a grade of “B-” or higher in every PAD course in the core courses, research methods/statistics courses, and the Capstone courses. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Independent Learning

Independent learning is demonstrated throughout the curriculum, through the process of inquiry and dialogue. Tangible projects such as scholarly research, papers, internships, and the capstone experience also contribute to the self-development of students. The capstone courses, PAD 6062 and CJE 6718, provide the independent learning experience.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Public Administration MPA - Public Administration MPA, Nonprofit Management MNM Dual Degree Track

College
College of Community Innovation and Education

Department
School of Public Administration

Track Website
https://ccie.ucf.edu/public-administration/

Track Handbook
Public Administration MPA, Nonprofit Management MNM Dual Degree Track

Track Contact Information

Abdul-Akeem Sadiq, PhD
Associate Professor
Director, Public Administration Programs
Abdul-akeem.sadiq@ucf.edu
Telephone: 407-823-3925

Edlira Dursun, MPA, MNM
Graduate Adviser, MPA, MPP Programs
Edlira.dursun@ucf.edu
Telephone: 407-823-1139
DPAC 446B

Is this track available 100% online?
Yes

UCF Online

Please note: Public Administration (MPA) may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Track Description

The Public Administration MPA – Nonprofit Management MNM Dual Degree Track provides the opportunity for students to earn graduate degrees from two academic programs, the Master of Public Administration and the Master of Nonprofit Management, concurrently. The program emphasizes nonprofit management and public administration research, theory, policy and organizational administration to prepare future public service organizational leaders in public, nonprofit, social service, and private organizations. After successful completion of the Dual Degree program, students will receive two diplomas - one for the Public Administration MPA and one for the Nonprofit Management MNM degree.

Students seeking admission to the MNM/MPA Dual Degree program should apply directly to the Dual Degree track of either the Public Administration MPA program or the Nonprofit Management MNM program. Only one application will be required. If admitted, a student will be active in the Dual Degree tracks of both the Public Administration MPA and the Nonprofit Management MNM programs.

Students previously admitted to the Public Administration MPA or the Nonprofit Management MNM program should consult with their adviser prior to completing 18 credit hours if interested in the MNM/MPA Dual Degree program.

The dual degree track (Master of Public Administration / Master of Nonprofit Management) consists of 54 credit hours. Each student completes all the core courses for each program including 42 credit hours of core courses, 6 credit hours of research methods and statistics core courses and 6 credit hours of capstone courses.

Courses and credit hours used for undergraduate degrees cannot be counted toward the MPA/MNM track, except for Senior Scholar students who, with the permission of the MPA and MNM program directors, may use up to 9 credit hours of graduate coursework that was used in their undergraduate degree toward credit in the dual degree program.

Total Credit Hours Required: 54 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation. Letters of recommendation must specifically address the applicant's ability to succeed in graduate coursework and his or her work ethic. Recommendation letters from professors are preferred, however, letters from supervisors are also acceptable.
- Résumé: The most current, professional resume should be provided.
- Statement of goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
  - Reason for pursuing graduate study in Public Administration and Nonprofit Management, including future goals and plans.
  - Specific areas of Nonprofit Management and Public Administration of interest.
  - Relevant experience, paid or as a volunteer
  - What makes the applicant a special candidate for admission to this limited access program.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from Josef Silny and Associates, Inc. only.
- All International students must meet university minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.

Admission to this dual degree track is competitive; applicants meeting the minimum university and/or program application requirements are not guaranteed admission to the program.

All requested material must be submitted by the established deadline date. Material received after the established deadline may not be considered.

Students are expected to be computer literate upon entry to the program or are expected to obtain these skills immediately upon admission to the program.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Nonprofit Management MNM Dual Degree</th>
<th>Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tbody>
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<td>International Applicants</td>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date*

**Graduate School Contact**

Brandon Ruff  
gradmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
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TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

Required Core Courses  
42 Total Credits

- Complete the following:
  - PAD5145 - Volunteerism in Nonprofit Management (3)  
  - PAD5145 - Volunteerism in Nonprofit Management (3)  
  - PAD5850 - Grant and Contract Management (3)  
  - PAD6035 - Public Administration in the Policy Process (3)  
  - PAD6037 - Public Organization Management (3)  
  - PAD6053 - Public Administrators in the Governance Process (3)  
  - PAD6142 - Nonprofit Organizations (3)  
  - PAD6207 - Public Financial Management (3)  
  - PAD6208 - Nonprofit Financial Management (3)  
  - PAD6227 - Public Budgeting (3)  
  - PAD6237 - Ethics and Governance in Nonprofit Management (3)  
  - PAD6335 - Strategic Planning and Management (3)  
  - PAD6327 - Public Program Evaluation Techniques (3)  
  - PAD6417 - Human Resource Management (3)

Research Methods/Statistics Core Requirements  
6 Total Credits

- Complete the following:
  - PAD6700 - Research Methods in Public Administration (3)  
  - PAD6701 - Analytical Techniques for Public Administration (3)

Capstone Core Requirements:  
6 Total Credits

- Students will engage in a capstone experience for both the MPA and the MNM programs that builds upon the knowledge and skills gained from completing the core courses. Students will complete this requirement through enrollment in PAD 6149 - Nonprofit Administration and PAD 6062 - Advanced Concepts and Applications in Public Administration. Capstone courses may only be taken following the completion of all core courses; they may not be combined with core courses in the same semester. Capstone courses are offered fall and spring semesters only.

Courses  
6 Total Credits

- Complete the following:
  - PAD6149 - Nonprofit Administration (3)  
  - PAD6062 - Advanced Concepts and Applications in Public Administration (3)

Grand Total Credits: 54
**Track Details**

**Additional Program Requirements**

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

**Independent Learning**

Independent learning is demonstrated throughout the curriculum, through the process of inquiry and dialogue. Tangible projects such as scholarly research, papers, internships, and the capstone experience also contribute to the self-development of students. The research paper and Learning and Professional Development portfolio in the Capstone Experience focus on reviewing and analyzing contemporary issues in order to help students acquire knowledge and skills pertaining to research-based best practices. The capstone courses, PAD 6062 and PAD 6149, provide the independent learning experience.

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

**Public Affairs PhD**

**College**

College of Community Innovation and Education

**Department**

School of Public Administration

**Program Website**

https://ccie.ucf.edu/public-administration/public-affairs-phd/

**Program Handbook**

Public Affairs PhD

**Program Contact Information**

**Jeremy Hall PhD**
Professor and Public Affairs Program Coordinator
Jeremy.Hall@ucf.edu
Telephone: 407-823-1921
DPAC, 448R

**Edlira Dursun, MNM, MPA**
Academic Program Coordinator II
Edlira.Dursun@ucf.edu
DPAC 446B
Is this program available 100% online?

No

Program Description

The Doctoral Program in Public Affairs is designed to prepare graduates to advance research and theory by exploring topics at the leading edge of public affairs. To achieve this goal, the program builds on a set of four foundational core courses that explore the intellectual history of public administration, the principal theories of public organizational theory and behavior, the public policy process, including policy formulation and implementation, and advanced public policy analysis. Students will appreciate and apply an understanding of social, economic, political, and technological factors that shape governance through formal and informal processes and actions.

The program matches the career goals of students through the interdisciplinary nature of course content, the interaction with faculty, and the flexibility inherent in the choice of program concentrations and electives. Those seeking advancement within public agencies or nonprofit organizations can choose a mix of electives, including course work from other UCF programs, while those seeking to teach at the college or university level will focus on specialization courses within their discipline.

More specifically, the graduates of this doctoral program will demonstrate the ability to: 1) attain and apply knowledge and understanding of the complex relationships that characterize public affairs and policy; 2) conduct and lead original research, 3) become professional individuals either in academia or in other positions related to public administration, public affairs, and policy.

Specialization Areas:

Students enrolled in the Doctoral Program in Public Affairs will have the opportunity to choose from one of nine specialization areas. Suggested areas of specialization are comprised of graduate courses offered by the university’s existing graduate degree programs. When pursuing electives intended for master’s level students, doctoral students are expected to complete additional readings and assignments in addition to those required for master’s students enrolled in those courses. Students complete four recommended courses (twelve credit hours) for their chosen specialization (substitutions will be allowed with the approval of the program director, and students may create their own specialization with advance approval from the program director) and six credit hours of directed research in which the student conducts independent research in their anticipated dissertation topic with their advisor. Students should note that the concentrations identified below are exemplary and not exclusive.

The Doctoral Program in Public Affairs’ specialization areas include but are not limited to:

- Public Policy Analysis
- Public Budgeting & Finance
- Public Management
- Urban Policy
- Emergency Management
- Nonprofit Management
- Collaborative Governance
- Comparative Public Administration
- Community and Global Health Services Research

For detailed explanations pertaining to each specialization, please visit the Doctoral Program in Public Affairs’ program page at: https://ccie.ucf.edu/public-administration/public-affairs-phd/

Program Tracks

The Doctoral Program in Public Affairs offers prospective applicants who do not have a graduate degree the opportunity to apply to the Public Affairs PhD - Public Administration MPA Dual Degree Track.

The Public Affairs PhD - Public Administration MPA Dual Degree Track provides academically talented students an opportunity to earn the Doctor of Philosophy in Public Affairs and the Master of Public Administration degrees concurrently. Students successfully completing the PhD/MPA Dual Degree program will have the skills and analytical techniques for careers in academia or in the public and nonprofit sectors. After successful completion of the PhD/MPA Dual Degree program, students will receive two diplomas, one for the Public Administration MPA degree and one for the Public Affairs PhD degree.

Students seeking admission to the PhD/MPA Dual Degree program should apply directly to the Public Affairs PhD - Public Administration MPA Dual Degree Track. Only one application will be required. If admitted, students will be active in both the Public Administration MPA and the Public Affairs PhD programs but will be required to complete all coursework for the MPA program prior to starting any coursework required for the PhD program.

Program Prerequisites

Earned Master’s degree in public administration or a closely-related discipline, including but not limited to political science, economics, management, public policy, criminal justice, social work, or public health.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Doctoral Program in Public Affairs will be open to applicants with an earned Master's degree in public administration or a closely-related discipline, including but not limited to political science, economics, management, public policy, criminal justice, social work, or public health. The program encourages applicants with diverse academic backgrounds, with preference given to those with grounding in the policy or administrative sciences drawing from fields aligned with the previously mentioned Ph.D. program concentrations.

Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum admission standards does not guarantee program admissions. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Administration and Policy fields.

In addition to UCF's Admission Standards, the program requires applicants to meet the following requirements:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelors and master's degrees showing a GPA of 3.5 or better in both degrees.
- Official, competitive GRE score taken within the last five years, is required by all applicants applying to the Ph.D. program (UCF's Institutional Code is 5233);
- A personal statement of 1000 words or less describing the applicant's educational expectations, career aspirations, any special qualifications or experiences that may enhance the overall learning environment, and the reasons for pursuing a Ph.D. in Public Affairs. The statement should also indicate how the applicant's research and career interests fit with those of the current faculty;
- Three letters of recommendation from professors or professionals who can assess the applicant's ability to succeed in a research-oriented doctoral program;
- A current resume;
- At least one writing sample, i.e., academic paper, report, etc.
- Evidence of adequate background in Calculus.

International students:

- In addition to official transcripts and certification of degrees, a course-by-course credential evaluation with GPA calculation is required of all students who have attended a college/university outside the United States. UCF accepts transcript evaluations from the following two agencies only: Josef Silny and Associates, Inc, or World Education Services (WES).
- International students, except those who are from countries where English is the only official language, those who have earned a degree from a regionally accredited US college or university, or those who have earned a degree from a country where English is the only official language of instruction, are required to submit a score on the Test of English as a Foreign Language (TOEFL). Although we prefer the TOEFL, we will also accept International English Testing System (IELTS) scores. Students who are non-native speakers of English (and do not have a degree from a U.S. institution) must pass the English Speaking test administered by the UCF English Institute before they will be permitted to teach as a Graduate Teaching Associate or Graduate Teaching Assistant.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Public Affairs PhD</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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Degree Requirements

Required Courses
24 Total Credits

- Details

Core Curriculum
12 Total Credits

- Complete the following:
  - PAD7006 - Intellectual History of Public Administration (3)
  - PAD7016 - Public Policy Processes and Theory (3)
  - PAD7106 - Public Organization Theory and Behavior (3)
  - PAD7308 - Advanced Public Policy Analysis (3)

Research Methods
12 Total Credits

- Complete the following:
  - PAD7706 - Advanced Research Design for Public Administration and Policy (3)
  - PAD7701 - Quantitative Methods for Public Administration & Policy I (3)
  - PAD7756 - Quantitative Methods for Public Administration and Policy II (3)
  - PAD7709 - Advanced Qualitative Methods for Public Administration and Policy (3)

Area of Specialization
18 Total Credits

- Earn at least 18 credits from the following types of courses:
  Suggested areas of specialization are comprised of graduate courses offered by the School of Public Administration’s existing graduate degree programs. Doctoral students are expected to complete additional readings and assignments in addition to those required for Master’s students enrolled in those courses. Students complete four recommended courses for their chosen specialization (substitutions will be allowed with the approval of the program director, and students may create their own specialization with advance approval from the program director) and 6 credit hours of directed research in which the student conducts independent research in the area of their anticipated dissertation topic with their advisor. The concentrations identified below are exemplary and not exclusive. It is important to note that many students interested in pursuing a research career will find it necessary to supplement the quantitative methods sequence with additional coursework in analytic methods or public economics, which may also be provided through the directed study courses in consultation with the program director and their dissertation chair. Concentrations include but are not limited to: - Public Policy Analysis - Public Budgeting & Finance - Public Management - Urban Policy - Emergency Management - Nonprofit Management - Collaborative Governance - Comparative Public Administration See “Program Details” section below for suggested course sets

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  PAF 7980 Each student must defend a dissertation proposal before their committee. This defense must occur within one long semester (i.e., fall or spring semester) of completing the qualifying examination. Failure to defend a prospectus within one long semester will result in dismissal from the program. The dissertation must be the student’s original work and must be a significant contribution to public affairs theory. Students have the option of completing a traditional research monograph or three high-quality, distinct, but closely related papers, which each deliver practically significant findings sufficient to stand on their own as independent publications. Each completed dissertation must be defended before a committee of the graduate faculty; the student will be expected to demonstrate not only a thorough understanding of the dissertation’s context but also extensive knowledge of the broader discipline of which the dissertation is a part.
Examinations
0 Total Credits

- Committee: The committee must include the prospective chair of the student's dissertation committee and three other members selected by the chair in consultation with the student. During or prior to the semester during which completion of the qualifying examination is anticipated, students must select a dissertation committee (3 members from the public administration faculty, one of whom will serve as chair, plus an outside member). This committee will oversee the qualifying examination, dissertation proposal, and dissertation. Core Exam: Students who have passed each of the core courses will complete a written core examination at the conclusion of their initial year in the program. The exam will consist of questions drawn from each core course and developed by the instructor of record. The take-home exam will be administered by the Ph.D. program director in an open note, time-limited format. The Ph.D. faculty committee (consisting of core course instructors) will assess each student's response to their substantive question. Students failing the examination will be allowed a second attempt within six months of the first attempt. If a student's second core examination attempt is unsuccessful, the student will be dismissed from the program. Qualifying Examination: At the conclusion of program coursework, when all curricular requirements have been met, students must complete the qualifying examination to be entered into candidacy for the degree. The examination will consist of a two-day written and an oral component, both on campus and closed book, during which students will be required to demonstrate familiarity with literature, theory, and analysis to the satisfaction of the committee. The student must pass both the written and oral components to proceed in the program. Failure of either component will require that both be retaken within six months. If the student fails a second time, he/she will be dismissed from the program. The qualifying examination must be taken initially within one year of all course work being completed.

Candidacy
0 Total Credits

- Students can officially obtain candidacy status when they have passed the core and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining electives included, and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours. Students officially enter candidacy when the following work has been accomplished: 1. Pass Core and Qualifying Exams 2. Form an appropriate Dissertation Committee by the established university deadline: 1. Chair (Graduate Faculty member who is eligible to chair a dissertation committee) 2. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment) 3. At least three, and a majority of the committee, must be members of the Graduate Faculty 4. At least one member must be from outside the department (or college, if a college-wide program) 5. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice-Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice-Chair. 3. Have no more than 6 total credit hours of coursework remaining (including electives) 4. Complete all required RCR Workshops and CITI Integrity Trainings. 5. Complete PAF Notification of Doctoral Candidacy form.

Grand Total Credits: 57
Program Details

Area of Specialization

Public Policy Analysis

- PAD 6035 - Public Administration in the Policy Process 3 Credit Hours
- PAD 6307 - Public Policy Analysis and Management 3 Credit Hours
- PAD 6616 - Economic Principles for Public Policy and Management 3 Credit Hours
- PAD 6327 - Public Program Evaluation Techniques 3 Credit Hours

*Additional courses available with program director approval

Public Budgeting & Finance

- PAD 6207 - Public Financial Management 3 Credit Hours
- PAD 6227 - Public Budgeting 3 Credit Hours
- PAD 6238 - Revenue Policy and Administration 3 Credit Hours
- PAD 6260 - Fundamentals of Public Sector Accounting 3 Credit Hours
- PAD 6616 - Economic Principles for Public Policy and Management 3 Credit Hours

*Additional courses available with program director approval

Public Management

- PAD 6227 - Public Budgeting 3 Credit Hours
- PAD 6335 - Strategic Planning and Management 3 Credit Hours
- PAD 6417 - Human Resource Management 3 Credit Hours
- PAD 6439 - Leadership in Public Service 3 Credit Hours
- PAD 6705 - Public Sector Communications 3 Credit Hours

*Additional courses available with program director approval

Urban Policy

- PAD 6200 - International Emergency and Crisis Management 3 Credit Hours
- PAD 6339 - Housing Development and Planning 3 Credit Hours
- PAD 6387 - Transportation Policy 3 Credit Hours
- PAD 6716 - Information Systems for Public Managers and Planners 3 Credit Hours
- URP 6711 - Sustainable Transportation Planning 3 Credit Hours

*Additional courses available with program director approval

Emergency Management

- PAD 6357 - Urban Resilience 3 Credit Hours
- PAD 6397 - Managing Emergencies and Crises 3 Credit Hours
- PAD 6399 - Foundations of Emergency Management and Homeland Security 3 Credit Hours
- PAD 6716 - Information Systems for Public Managers and Planners 3 Credit Hours
- PAD 6825 - Cross-Sectoral Governance 3 Credit Hours

*Additional courses available with program director approval

Nonprofit Management

- PAD 6142 - Nonprofit Organizations 3 Credit Hours
- PAD 6327 - Public Program Evaluation Techniques 3 Credit Hours
- PAD 6335 - Strategic Planning and Management 3 Credit Hours
- PAD 6208 - Nonprofit Financial Management 3 Credit Hours

*Additional courses available with program director approval

Collaborative Governance

- PAD 6825 - Cross-Sectoral Governance 3 Credit Hours
- PAD 6829 - Network Analysis in Public Policy and Management 3 Credit Hours
- PAD 7827 - Network Governance 3 Credit Hours

*Additional courses available with program director approval

Comparative Public Administration

- PAD 5930 - Global Cities 3 Credit Hours
- PAD 6357 - Urban Resilience 3 Credit Hours
- PAD 6836 - Comparative Global Public Administration 3 Credit Hours

*Additional courses available with program director approval

2021-2022 Graduate Catalog
Financial Information
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Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Public Affairs PhD - Public Affairs PhD, Criminal Justice Track

College
College of Community Innovation and Education

Department
School of Public Administration

Track Website
https://ccie.ucf.edu/public-administration/public-affairs-phd/

Track Contact Information
Matt Nobles PhD
Professor
mnobles@ucf.edu
Telephone: 407-823-0821
HPA 1, Room 317

Is this track available 100% online?
No
Track Description

New admissions to this track have been suspended effective Fall 2021. Prospective students interested in this track are encouraged to apply directly to the Public Affairs PhD program. Students are able to select or create specializations that best align with their research interests.

The Doctoral Program in Public Affairs is an interdisciplinary program drawing from the strengths of faculty in Criminal Justice, Health Management and Informatics, Public Administration, and Social Work. The Criminal Justice Track prepares students for academic positions in colleges and universities as well as research and leadership positions in public, nonprofit and private agencies. The dynamic mix of an interdisciplinary faculty with students of varied backgrounds creates a stimulating environment to examine contemporary organizational, institutional and community problems and issues. Graduates possess the theoretical, analytical and ethical foundation to produce new knowledge that impacts policies and programs and enhances institutional and community performance.

Students must complete 60 credit hours beyond the master's degree distributed in the following manner:

- a three-course, 9-credit hour required Public Affairs substantive core
- a six-course, 18-credit hour required Public Affairs methodological and statistical core
- a three-course, 9-credit hour required discipline-specific specialization
- a two-course, 6-credit hour unrestricted elective requirement
- a one course, 3-credit hour required Public Affairs practicum
- 15 credit hours of dissertation minimum

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Track Prerequisites

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants with a master's degree in a field not directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants with a master's degree in a field not directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study. Any requirements for preparatory coursework will be communicated at the time of acceptance into the program and will generally be taken prior to beginning doctoral-level coursework. These courses, if required, will not substitute for the listed doctoral degree requirements. Admission is offered for fall semester only.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelor's and master's degrees.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less addressing the following:
  - What is your reason for pursuing a doctoral degree in Public Affairs in our program? Be sure to include future goals and plans.
  - What research areas, pertaining to Public Affairs are you interested in researching?
  - What will be your contribution as a student to the program?
- Résumé.
- A writing sample. An academic paper is preferred, but the program will consider writing samples that demonstrate analytical writing (i.e. grant applications, position papers, etc.)
- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program. Academic references are strongly preferred.

The Public Affairs Program Admissions Committee will begin reviewing applicant files once the student has submitted all of the above documents. Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. The Admissions Committee will base final admission on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

Application Deadlines Notes

New admissions to this track have been suspended effective Fall 2021. Prospective students interested in this track are encouraged to apply directly to the Public Affairs PhD program. Students are able to select or create specializations that best align with their research interests.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
45 Total Credits

- Details

Public Affairs Substantive Core
9 Total Credits

- Complete the following:
  - PAF7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms (3)
  - PAF7230 - Strategic Change and Management for Public Affairs (3)
  - PAF7317 - Social Inquiry and Public Policy (3)

Methodological and Statistical Core
18 Total Credits

- Complete all of the following
  - Complete the following:
    - PAF7802 - Advanced Research Methodology for Public Affairs (3)
    - PAF7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis (3)
    - PAF7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods (3)
    - PAF7820 - Qualitative Methods for Public Affairs (3)
    - PAF7325 - Policy and Program Evaluation for Public Affairs (3)
  - Complete at least 1 of the following:
    - PAF7868 - Public Affairs Mixed Methods Research (3)
    - PAF7856 - Applications of Structural Equation Modeling in Public Affairs (3)

Community-based Research
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - PAF 7947 - Public Affairs Community-Based Research At the end of the required coursework, students will take the Community-Based Research course (PAF 7947). Led by a professor, the course provides the student with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem. This experiential learning brings the student out to the community while bringing the community into the university.

Track Specialization
15 Total Credits

- Complete all of the following
  - Complete at least 3 of the following:
    - CJE6456 - Seminar in Policing Urban Communities (3)
    - CJE6320 - Seminar in Police Administration (3)
    - CJE6706 - Seminar in Police Socialization and Culture (3)
    - CJC6135 - Seminar in Institutional Corrections (3)
    - CJC6165 - Seminar in Community Corrections (3)
    - CJC6486 - Seminar in Correctional Effectiveness (3)
    - CJJ6546 - Seminar in Policing and Prevention in the Juvenile Justice System (3)
    - CJJ6124 - Seminar in Prosecuting Juvenile Offenders (3)
    - CJJ6126 - Seminar in Juvenile Corrections (3)
    - CJL6568 - Law and Social Control (3)
  - Earn at least 6 credits from the following types of courses:
    - Choose two additional courses from the following list: See adviser for appropriate methodological elective - 3 Credit Hours Directed independent study - 3 Credit Hours Or other course that will add to the student's course of study. Requires approval of adviser - 3 Credit Hours

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - PAF 7980 - Dissertation Research

Grand Total Credits: 60
Track Details

A maximum of 6 credit hours of Independent Study may be used as electives with adviser’s approval.

Transfer work will only be accepted by the Public Affairs PhD program if taken as part of an approved plan of study for a doctoral program at UCF or elsewhere. A maximum of 6 credit hours taken at the doctoral level may be considered for transfer. The acceptance of transfer credit into the track specialization or elective component is dependent upon the approval of the Track Coordinator in consultation with the PAF Program Director. Transfer work will not be accepted into the PAF substantive or methodological core components.

A grade of B- or better is required in all substantive core and methodological core courses. Students receiving a grade of "C+" or lower will be required to repeat the course and receive a grade of B- or better prior to taking the Research Proficiency Exam and Qualifying Exam. Any student who receives more than one grade of C+ or lower in their doctoral course work may be dismissed from the program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an "F" grade in their doctoral course work will be dismissed from the program.

Assignment of Faculty Advisers

Upon acceptance of a student into the program, the program director provides students with an initial orientation and a general advising session. The Track Coordinator in conjunction with the PAF Director helps the student throughout the foundation stage of the program, assisting in the clarification of interests and goals and facilitating the introduction of students to faculty and research interests that can advance the student’s program of study. Criminal Justice Track students will be advised by the Criminal Justice Track Coordinator. The Track Coordinator assists the student in selecting elective courses, finalizing the program of study, and facilitating discussion with faculty members who have similar research interests. Discussion and review of dissertation topics should take place with the faculty member who has agreed to chair the dissertation committee. The dissertation chair is to be selected by the student prior to commencing the dissertation prospectus.

Research Proficiency Exam and Qualifying Exam

Upon successful completion of the first year of substantive and methodological required courses, students are required to take a Research Proficiency Exam (RPE) and Integrative Qualifying Exam (IQE). These exams assess a student’s ability to integrate the curriculum knowledge and apply it in the realm of community problem solving as it relates to policy, administration, governance, and organizations. Students are expected to demonstrate proficiency in the PAF Core Competencies.

Students are given two opportunities to pass the RPE and the QE. Students who fail any section twice are dismissed from the program. Any student who fails any the RPE twice or the QE twice will not be readmitted into the PAF program. This policy includes all tracks and/or any master’s to PhD program(s) within the PAF program. Please refer to the student handbook for further information.

Candidacy Status

Students can officially obtain candidacy status when they have successfully completed all course work, passed the research proficiency and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining (electives included) and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
   a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
   b. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
   c. At least three, and a majority of the committee, must be members of the Graduate Faculty
   d. At least one member must be from outside the department (or college, if a college-wide program)
   e. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice Chair.
3. Have no more than 6 total credit hours of coursework remaining (including electives)
4. Complete all required RCR Workshops and CITI Integrity Trainings
5. Complete PAF Notification of Doctoral Candidacy form

Equipment Fee

Full-time students in the Public Affairs Program pay a $40 equipment fee each semester that they are enrolled. Part-time students pay $20 per semester.
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
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https://funding.graduate.ucf.edu

Public Affairs PhD - Public Affairs PhD, Governance and Policy Research Track

College
College of Community Innovation and Education

Department
School of Public Administration

Track Website
https://ccie.ufc.edu/public-administration/public-affairs-phd/

Track Contact Information
Lawrence Martin PhD
Professor
lawrence.martin@ucf.edu
Telephone: 407-823-5731
DPAC 440C

Is this track available 100% online?
No

Track Description
New admissions to this track have been suspended effective Fall 2021. Prospective students interested in this track are encouraged to apply directly to the Public Affairs PhD program. Students are able to select or create specializations that best align with their research interests.

The Governance and Policy Track in the Public Affairs PhD program prepares students to perform high-quality policy-relevant research concerned with governance and public policy issues, primarily those with national and global implications. Students are empowered to provide unbiased, evidence-based information that is directly relevant to real public-policy problems.

Students must complete 60 credit hours beyond the master's degree, including 15 courses (45 credit hours) above the master's level distributed in the following manner:

- a three-course, 9-credit required Public Affairs substantive core
- a six-course, 18-credit required Public Affairs methodological and statistical core
- a three-course, 9-credit required discipline-specific specialization
- a two-course, 6-credit hour electives (may be taken outside the student's discipline)
- a one course, 3-credit required Public Affairs Community-based Research
- 15 credit hours of dissertation minimum

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree
Track Prerequisites

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants who do not have a master's degree in a field directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants who do not have a master's degree in a field directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study. This preparatory course work requirement will be communicated at the time of acceptance into the program. These courses will not substitute for the doctoral degree requirements and will generally be taken prior to beginning the doctoral level course work. Admission is offered for fall semester only.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelor's and master's degrees.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less describing the applicant's educational expectations, career aspirations, level of computer skills, and any special qualifications or experiences that may enhance the overall learning environment of the PAF program.
- Résumé.
- A writing sample, i.e., academic paper, report, etc.
- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program.

Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

Application Deadlines Notes

New admissions to this track have been suspended effective Fall 2021. Prospective students interested in this track are encouraged to apply directly to the Public Affairs PhD program. Students are able to select or create specializations that best align with their research interests.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
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Graduate Admissions

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PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
45 Total Credits

- Details

Public Affairs Substantive Core
9 Total Credits

- Complete the following:
  - PAF7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms (3)
  - PAF7230 - Strategic Change and Management for Public Affairs (3)
  - PAF7317 - Social Inquiry and Public Policy (3)

Methodological and Statistical Core
18 Total Credits

- Complete all of the following
  - PAF7802 - Advanced Research Methodology for Public Affairs (3)
  - PAF7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis (3)
  - PAF7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods (3)
  - PAF7820 - Qualitative Methods for Public Affairs (3)
  - PAF7325 - Policy and Program Evaluation for Public Affairs (3)

- Complete at least 1 of the following:
  - PAF7868 - Public Affairs Mixed Methods Research (3)
  - PAF7856 - Applications of Structural Equation Modeling in Public Affairs (3)

Community-based Research
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  PAF 7947 - Public Affairs Community-Based Research At the end of the required coursework, students will take the Community-Based Research course (PAF 7947). Led by a professor, the course provides the student with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem. This experiential learning brings the student out to the community while bringing the community into the university.

Track Specialization
9 Total Credits

- Complete the following:
  - PAF7055 - Seminar in State and Local Government Policy Research (3)
  - PAF7510 - Seminar in Policy Evaluation and Performance Measurement (3)
  - PAF7858 - Advanced Seminar in Governance and Policy Research (3)

Elective
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  Choose two additional courses from the following courses: - PAF 7757 - Seminar in Global Governance and Policy Research 3 Credit Hours - See adviser for appropriate methodological elective 3 Credit Hours - Directed independent study 3 Credit Hours - Or other course that will add to the student's course of study. Requires approval of adviser. 3 Credit Hours

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  PAF 7980 Dissertation Research

Grand Total Credits: **60**
Track Details

Students are required to take a statistical assessment the summer semester prior to their entering the program fall semester. This assessment will be used to determine a student's statistical knowledge and competency. Students that receive a passing score will be exempt from taking a 6XXX level statistics course. Those students requiring the 6XXX level course will meet with the Track Coordinator to determine which course will meet the requirement. Students are required to complete and pass the course prior to registering in PAF 7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis. The 6XXX level course credit hours may be included in the student's program of study as an elective.

A maximum of 6 credit hours of Independent Study may be used as electives with adviser's approval.

Transfer work will only be accepted by the Public Affairs PhD program if taken as part of an approved plan of study for a doctoral program at UCF or elsewhere. A maximum of 6 credit hours taken at the doctoral level may be considered for transfer. The acceptance of transfer credit into the track specialization and general elective component is dependent upon the approval of the Track Coordinator in consultation with the PAF Director. Transfer work will not be accepted into the PAF substantive or methodological core components.

A grade of B- or better is required in all courses. Students receiving a grade of "C+" or lower will be required to repeat the course and receive a grade of B- or better prior to taking the Qualifying Exam. Any student who receives more than one grade of "C+" or lower in their doctoral course work may be dismissed from the Public Affairs program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an "F" grade in their doctoral course work will be dismissed from the program.

Assignment of Faculty Advisers

Upon acceptance of a student into the program, the PAF Program Director provides students with an initial orientation and a general advising session. The Track Coordinator in conjunction with the PAF Director helps the student throughout the foundation stage of the program, assisting in the clarification of interests and goals and facilitating the introduction of students to faculty and research interests that can advance the student's program of study. Governance and Policy Research Track students will be advised by the Governance and Policy Research Track Coordinator. The Track Coordinator assists the student in selecting elective courses, finalizing the program of study, and facilitating discussion with faculty members who have similar research interests. Discussion and review of dissertation topics should take place with the faculty member who has agreed to chair the dissertation committee. The dissertation chair is to be selected by the student prior to commencing the dissertation prospectus.

Qualifying Examination

Upon successful completion of the first year of substantive and methodological required courses, students are required to take a Research Proficiency Exam (RPE) and Integrative Qualifying Exam (IQE). These exams assess a student's ability to integrate the curriculum knowledge and apply it in the realm of community problem solving as it relates to policy, administration, governance, and organizations. Students are expected to demonstrate proficiency in the PAF Core Competencies.

Students are given two opportunities to pass the RPE and the QE. Students who fail any section twice are dismissed from the program. Any student who fails any the RPE twice or the QE twice will not be readmitted into the PAF program. This policy includes all tracks and/or any master's to PhD program(s) within the PAF program. Please refer to the student handbook for further information.

Candidacy Status

Students can officially obtain candidacy status when they have successfully completed all course work, passed the research proficiency and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining (electives included) and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
   a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
   b. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
   c. At least three, and a majority of the committee, must be members of the Graduate Faculty
   d. At least one member must be from outside the department (or college, if a college-wide program)
   e. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice Chair.
3. Have no more than 6 total credit hours of coursework remaining (including electives)
4. Complete all required RCR Workshops and CITI Integrity Trainings
5. Complete PAF Notification of Doctoral Candidacy form

Equipment Fee

Full-time students in the Public Affairs Program pay a $40 equipment fee each semester that they are enrolled. Part-time students pay $20 per semester.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Public Affairs PhD - Public Affairs PhD, Health Services Management and Research Track

College

College of Community Innovation and Education

Department

School of Public Administration

Track Website

https://ccie.ucf.edu/public-administration/public-affairs-phd/

Track Contact Information

Su-I Hou PhD
Professor
Su-I.Hou@ucf.edu
Telephone: 407-823-3344
DPAC, Room 404H

Is this track available 100% online?

No
**Track Description**

New admissions to this track have been suspended effective Fall 2021. Prospective students interested in this track are encouraged to apply directly to the Public Affairs PhD program. Students are able to select or create specializations that best align with their research interests.

The Doctoral Program in Public Affairs is an interdisciplinary program that includes the professional and academic expertise of faculty in the fields of Criminal Justice, Health Management and Informatics, Public Administration, and Social Work. The Health Services Management and Research Track prepares students for academic positions in colleges and universities as well as research and leadership positions in public, nonprofit and for profit agencies and organizations.

A dynamic mix in the Public Affairs Doctoral Program of an interdisciplinary faculty and students from varied backgrounds creates a stimulating environment in which to examine contemporary organizational, institutional and community challenges. Graduates of the PAF Doctoral Program possess the theoretical, analytical and ethical foundation to discover new knowledge that will impact affirmatively public policy decisions and develop programs and systems that will enhance the delivery of services to an expectant and unyielding public.

Students must complete 60 credit hours beyond the master's degree distributed in the following manner:

- a three-course, 9-credit required Public Affairs substantive core
- a six-course, 18-credit required Public Affairs methodological and statistical core
- a three-course, 9-credit required discipline-specific specialization
- a two-course, 6-credit unrestricted elective requirement
- a one course, 3-credit required Public Affairs Community-based Research
- 15 credit hours of dissertation minimum

**Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree**

**Track Prerequisites**

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants with a master's degree in a field not directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants with a master's degree in a field not directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study. Any requirements for preparatory coursework will be communicated at the time of acceptance into the program and will generally be taken prior to beginning doctoral-level coursework. These courses, if required, will not substitute for the listed doctoral degree requirements. Admission is offered for fall semester only.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelor's and master's degrees.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less addressing the following:
  - What is your reason for pursuing a doctoral degree in Public Affairs in our program? Be sure to include future goals and plans.
  - What research areas pertaining to Public Affairs are you interested in researching?
  - What will be your contribution as a student to the program?
- Résumé.
- A writing sample. An academic paper is preferred, but the program will consider writing samples that demonstrate analytical writing (i.e. grant applications, position papers, etc.).
- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program. Academic references are strongly preferred.

The Public Affairs Program Admissions Committee will begin reviewing applicant files once the student has submitted all of the above documents. Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. The Admissions Committee will base final admission on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

**Application Deadlines Notes**

New admissions to this track have been suspended effective Fall 2021. Prospective students interested in this track are encouraged to apply directly to the Public Affairs PhD program. Students are able to select or create specializations that best align with their research interests.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Required Courses**

45 Total Credits

- Details

**Public Affairs Substantive Core**

9 Total Credits

- Complete the following:
  - PAF7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms (3)
  - PAF7230 - Strategic Change and Management for Public Affairs (3)
  - PAF7317 - Social Inquiry and Public Policy (3)

**Methodological and Statistical Core**

18 Total Credits

- Complete all of the following
  - Complete the following:
    - PAF7802 - Advanced Research Methodology for Public Affairs (3)
    - PAF7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis (3)
    - PAF7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods (3)
    - PAF7820 - Qualitative Methods for Public Affairs (3)
    - PAF7325 - Policy and Program Evaluation for Public Affairs (3)
  - Complete at least 1 of the following:
    - PAF7868 - Public Affairs Mixed Methods Research (3)
    - PAF7856 - Applications of Structural Equation Modeling in Public Affairs (3)

**Community-based Research**

3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - PAF 7947 - Public Affairs Community-Based Research
  - At the end of the required coursework, students will take the Community-Based Research course (PAF 7947).
  - Led by a professor, the course provides the student with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem.
  - This experiential learning brings the student out to the community while bringing the community into the university.

**Track Specialization**

15 Total Credits

- Complete all of the following
  - Complete the following:
    - HSA7116 - Theories in Healthcare Management (3)
    - HSA7936 - Advanced Seminar in Health Economics (3)
    - HSA7938 - Advanced Seminar in Health Services Research (3)
  - Complete at least 2 of the following:
    - HSA6108 - Health Care Organization and Management II (3)
    - HSA6128 - Health Care Services Management (3)
    - HSA6342 - Health Care Human Resources (3)
    - PHC6000 - Epidemiology (3)
    - PHC6146 - Health Planning and Policy (3)
    - PHC6160 - Health Care Finance (3)
    - HSA7125 - Globalization and Health (3)

**Dissertation**

15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - PAF 7980 Dissertation Research

Grand Total Credits: 60

**Track Details**

A maximum of 6 credit hours of Independent Study may be used as electives with adviser's approval.

Transfer work will only be accepted by the Public Affairs PhD program if taken as part of an approved plan of study for a doctoral program at UCF or elsewhere. A maximum of 6 credit hours taken at the doctoral level may be considered for transfer. The acceptance of transfer credit into the track specialization and a general elective component is dependent upon the approval of the Track Coordinator in consultation with the PAF Director. Transfer work will not be accepted into the PAF substantive or methodological core components.

A grade of B- or better is required in all substantive core and methodological core courses. Students receiving a grade of "C+" or lower...
In addition to the general UCF graduate application requirements, applicants to this program must provide:

- A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation.
- Any student who receives a "F" grade in their doctoral course work will be dismissed from the program.
- Any student who receives an "F" grade in their doctoral course work will be dismissed from the program.

**Assignment of Faculty Advisers**

Upon acceptance of a student into the program, the program director provides students with an initial orientation and a general advising session. The Track Coordinator in conjunction with the PAF Director helps the student throughout the foundation stage of the program, assisting in the clarification of interests and goals and facilitating the introduction of students to faculty and research interests that can advance the student's program of study. Health Services Management and Research Track students will be advised by the Health Services Management and Research Track Coordinator. The Track Coordinator assists the student in selecting elective courses, finalizing the program of study, and facilitating discussion with faculty members who have similar research interests. Discussion and review of dissertation topics should take place with the faculty member who has agreed to chair the dissertation committee. The dissertation chair is to be selected by the student prior to commencing the dissertation prospectus.

**Research Proficiency Exam and Qualifying Exam**

Upon successful completion of the first year of substantive and methodological required courses, students are required to take a Research Proficiency Exam (RPE) and Integrative Qualifying Exam (IQE). These exams assess a student's ability to integrate the curriculum knowledge and apply it in the realm of community problem solving as it relates to policy, administration, governance, and organizations. Students are expected to demonstrate proficiency in the PAF Core Competencies.

Students are given two opportunities to pass the RPE and the QE. Students who fail any section twice are dismissed from the program. Any student who fails any the RPE twice or the QE twice will not be readmitted into the PAF program. This policy includes all tracks and/or any master's to PhD program(s) within the PAF program. Please refer to the student handbook for further information.

**Candidacy Status**

Students can officially obtain candidacy status when they have successfully completed all course work, passed the research proficiency and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining ( electives included) and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
   a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
   b. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
   c. At least three, and a majority of the committee, must be members of the Graduate Faculty
   d. At least one member must be from outside the department (or college, if a college-wide program)
   e. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice Chair.
3. Have no more than 6 total credit hours of coursework remaining (including electives)
4. Complete all required RCR Workshops and CITI Integrity Trainings
5. Complete PAF Notification of Doctoral Candidacy form

**Equipment Fee**

Full-time students in the Public Affairs Program pay a $40 equipment fee each semester that they are enrolled. Part-time students pay $20 per semester.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants with a master's degree in a field not directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study. Any requirements for preparatory coursework will be communicated at the time of acceptance into the program and will generally be taken prior to beginning doctoral-level coursework. These courses, if required, will not substitute for the listed doctoral degree requirements. Admission is offered for fall semester only.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelor's and master's degrees.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less addressing the following:
  - What is your reason for pursuing a doctoral degree in Public Affairs in our program? Be sure to include future goals and
What research areas pertaining to Public Affairs are you interested in researching?

What will be your contribution as a student to the program?

- Résumé.
- A writing sample. An academic paper is preferred, but the program will consider writing samples that demonstrate analytical writing (i.e. grant applications, position papers, etc.)
- Three letters of recommendation from faculty or professionals who can assess the applicant’s ability to succeed in a doctoral program. Academic references are strongly preferred.

The Public Affairs Program Admissions Committee will begin reviewing applicant files once the student has submitted all of the above documents. Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. The Admissions Committee will base final admission on the evaluation of the applicant’s abilities, past performance, recommendations, match to the program, correspondence of the applicant’s career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

Application Deadlines

<table>
<thead>
<tr>
<th>Health Services Management and Research</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic Applicants</td>
<td>Jan 15</td>
<td>Mar 1</td>
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<tr>
<td>International Applicants</td>
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<td></td>
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</tr>
</tbody>
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*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Financials

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowships

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student’s graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Contact Info

Graduate Program

**Su-I Hou PhD**
Professor
Su-I.Hou@ucf.edu
Telephone: 407-823-3344
DPAC, Room 404H

Graduate Admissions

**Brandon Ruff**
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
Graduate Fellowships

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Graduate Financial Aid

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Public Affairs PhD - Public Affairs PhD, Public Administration MPA Dual Degree Track

College
College of Community Innovation and Education

Department
School of Public Administration

Track Website
https://ccie.ucf.edu/public-administration/public-affairs-phd/

Track Handbook
Public Affairs PhD

Track Contact Information

Jeremy Hall PhD
Professor and Public Affairs Program Coordinator
Jeremy.Hall@ucf.edu
Telephone: 407-823-1921
DPAC, 448R

Is this track available 100% online?
No
Track Description

The Public Affairs PhD - Public Administration MPA Dual Degree Track provides academically talented students an opportunity to earn the Doctor of Philosophy in Public Affairs and the Master of Public Administration degrees concurrently. Students successfully completing the PhD/MPA Dual Degree program will have the skills and analytical techniques for careers in academia or in the public and nonprofit sectors. After successful completion of the PhD/MPA Dual Degree program, students will receive two diplomas, one for the Public Administration MPA degree and one for the Public Affairs PhD degree.

Students seeking admission to the PhD/MPA Dual Degree program should apply directly to the Public Affairs PhD - Public Administration MPA Dual Degree Track. Only one application will be required. If admitted, student will be active in both the Public Administration MPA and the Public Affairs PhD programs.

The Public Administration MPA Dual Degree track in the Public Affairs PhD program consists of 84 credit hours, including 63 credit hours of required courses, 6 credit hours of electives approved by the student’s faculty adviser or program director, and 15 credit hours of dissertation. For required courses, students must first complete seven core courses plus the capstone course for the MPA program (24 credit hours) before enrolling in doctoral level courses. Doctoral level courses are reserved for students who have successfully completed all master's degree requirements. Once a student has completed all master's level coursework, then that student will take three Public Affairs substantive core courses and six Public Affairs methodological and statistical core courses for the PhD program (30 credit hours), plus five elective courses (15 credit hours).

Total Credit Hours Required: 84 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less addressing the following:
  - What is your reason for pursuing a doctoral degree in Public Affairs in our program? Be sure to include future goals and plans.
  - What research areas pertaining to Public Affairs are you interested in researching?
  - What will be your contribution as a student to the program?
- Résumé.
- A writing sample. An academic paper is preferred, but the program will consider writing samples that demonstrate analytical writing (i.e. grant applications, position papers, etc.).
- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program. Academic references are strongly preferred.

International students:

- In addition to official transcripts and certification of degrees, a course-by-course credential evaluation with GPA calculation is required of all students who have attended a college/university outside the United States. UCF accepts transcript evaluations from the following two agencies only: Josef Silny and Associates, Inc, or World Education Services (WES).
- International students, except those who are from countries where English is the only official language, those who have earned a degree from a regionally accredited US college or university, or those who have earned a degree from a country where English is the only official language of instruction, are required to submit a score on the Test of English as a Foreign Language (TOEFL). Although we prefer the TOEFL, we will also accept International English Testing System (IELTS) scores. Students who are non-native speakers of English (and do not have a degree from a U.S. institution) must pass the English Speaking test administered by the UCF English Institute before they will be permitted to teach as a Graduate Teaching Associate or Graduate Teaching Assistant.

The Public Affairs Program Admissions Committee will begin reviewing applicant files once the student has submitted all of the above documents. Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. The Admissions Committee will base final admission on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Public Administration MPA Dual Degree</th>
<th>*Fall Priority</th>
<th>Fall</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
69 Total Credits

- In addition to the following required courses, the MPA degree will include 6 credit hours of advanced research methods and quantitative methods in Public Affairs and 12 credit hours of electives that are incorporated into the prescribed PhD curriculum

Required Courses for MPA
24 Total Credits

- Complete the following:
  - PAD6035 - Public Administration in the Policy Process (3)
  - PAD6037 - Public Organization Management (3)
  - PAD6053 - Public Administrators in the Governance Process (3)
  - PAD6207 - Public Financial Management (3)
  - PAD6227 - Public Budgeting (3)
  - PAD6335 - Strategic Planning and Management (3)
  - PAD6417 - Human Resource Management (3)
  - PAD6062 - Advanced Concepts and Applications in Public Administration (3)

Public Affairs Substantive Core:
9 Total Credits

- Complete the following:
  - PAF7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms (3)
  - PAF7230 - Strategic Change and Management for Public Affairs (3)
  - PAF7317 - Social Inquiry and Public Policy (3)

Methodological and Statistical Core
18 Total Credits

- Complete all of the following
  - Complete the following:
    - PAF7802 - Advanced Research Methodology for Public Affairs (3)
    - PAF7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis (3)
    - PAF7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods (3)
    - PAF7820 - Qualitative Methods for Public Affairs (3)
    - PAF7325 - Policy and Program Evaluation for Public Affairs (3)
  - Complete at least 1 of the following:
    - PAF7868 - Public Affairs Mixed Methods Research (3)
    - PAF7856 - Applications of Structural Equation Modeling in Public Affairs (3)

Community-based Research
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - PAF 7947 - Public Affairs Community-Based Research At the end of the required coursework, students will take the Community-Based Research course (PAF 7947). Led by a professor, the course provides the student with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem. This experiential learning brings the student out to the community while bringing the community into the university.
Track Specialization
9 Total Credits

- Complete the following:
  - PAD7026 - Advanced Seminar in Public Administration (3)
  - PAD7057 - Advanced Public Management (3)
  - PAD7827 - Network Governance (3)

Elective Courses
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  The two required elective courses (3 credit hours each) offered within the dual degree provide an emphasis on public and nonprofit management; however, other emphases may be developed in consultation with the adviser. With prior approval from the Program Director, up to 6 credit hours of elective course work may be taken from outside the department. Students must show that elective courses taken outside of the department directly support an academic or professional career in public administration. Students take two of the following courses:
  - PAD 7317 - Program Design and Management 3 Credit Hours
  - PAD 7707 - Advanced Research in Public Administration 3 Credit Hours
  - Methodological elective approved by adviser 3 Credit Hours
  - Directed independent study 3 Credit Hours
  - Pre-approved methodological or statistical course 3 Credit Hours

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  PAF 7980 Dissertation Research

Grand Total Credits: 84
Track Details

A maximum of 6 credit hours of Independent Study may be used as electives with adviser’s approval.

A grade of “B-” or better is required in all courses listed under the MPA requirement and Public Affairs requirements. Students receiving a grade below a “B-” in the Substantive Core or Methodological Core must repeat the course and receive an acceptable grade prior to taking the Research Proficiency Exam and Qualifying Exam. Any student who receives more than one grade of “C” in their doctoral course work may be dismissed from the program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an “F” grade in their master’s level or doctoral course work will be dismissed from the program.

Research Proficiency Exam and Qualifying Exam

Upon successful completion of the first year of substantive and methodological required courses, students are required to take a Research Proficiency Exam (RPE) and Integrative Qualifying Exam (IQE). These exams assess a student’s ability to integrate the curriculum knowledge and apply it in the realm of community problem solving as it relates to policy, administration, governance, and organizations. Students are expected to demonstrate proficiency in the PAF Core Competencies.

Students are given two opportunities to pass the RPE and the QE. Students who fail any section twice are dismissed from the program. Any student who fails any the RPE twice or the QE twice will not be readmitted into the PAF program. This policy includes all tracks and/or any master’s to PhD program(s) within the PAF program. Please refer to the student handbook for further information.

Candidacy

Students can officially obtain candidacy status when they have successfully completed all course work, passed the research proficiency and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining (electives included) and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
   a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
   b. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
   c. At least three, and a majority of the committee, must be members of the Graduate Faculty
   d. At least one member must be from outside the department (or college, if a college-wide program)
   e. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice Chair.
3. Have no more than 6 total credit hours of coursework remaining (including electives)
4. Complete all required RCR Workshops and CITI Integrity Trainings
5. Complete PAF Notification of Doctoral Candidacy form

Additional Program Requirements

Students initially admitted to the MPA/PhD dual degree program who subsequently decide they only want to receive the MPA degree may have all applicable courses completed as part of the two degree programs applied to the MPA degree program without being counted as transfer courses.

Equipment Fee

Full-time students in the Public Affairs PhD Program pay a $40 equipment fee each semester that they are enrolled. Part-time students pay $20 per semester.

Independent Learning

Independent learning is demonstrated throughout the curriculum, through the process of inquiry and dialogue. Tangible projects, such as research scholarly papers and the dissertation contribute to the self development of MPA/PhD students.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Public Affairs PhD - Public Affairs PhD, Public Administration Track

College
College of Community Innovation and Education

Department
School of Public Administration

Track Website
https://ccie.ucf.edu/public-administration/public-affairs-phd/

Track Contact Information

Thomas Bryer PhD
Assistant Professor
thomas.bryer@ucf.edu
Telephone: 407-823-0410
DPAC, 448A

Is this track available 100% online?

No
**Track Description**

*New admissions to this track have been suspended effective Fall 2021. Prospective students interested in this track are encouraged to apply directly to the Public Affairs PhD program. Students are able to select or create specializations that best align with their research interests.*

The Doctoral Program in Public Affairs is an interdisciplinary program that includes the professional and academic expertise of faculty in the fields of Criminal Justice, Health Management and Informatics, Public Administration, and Social Work. The Public Administration Track prepares students for academic positions in colleges and universities as well as research and leadership positions in public, nonprofit and for profit agencies and organizations.

The Public Administration Track integrates the historical evolution of the public administration field, the current challenges in theory and practice in our increasingly interconnected society, and the future directions needed as a discipline and society to achieve responsive solutions to complex public problems.

Students must complete 60 credit hours beyond the master's degree distributed in the following manner:

- a three-course, 9-credit required Public Affairs substantive core
- a six-course, 18-credit required Public Affairs methodological and statistical core
- a three-course, 9-credit required discipline-specific specialization
- a two-course, 6-credit unrestricted elective requirement
- one course, 3-credit required Public Affairs Community-based Research
- 15 credit hours of dissertation minimum

**Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree**

**Track Prerequisites**

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants with a master's degree in a field not directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must hold a master's degree from an accredited institution, preferably in criminal justice, health, public administration or social work. Applicants with a master's degree in a field not directly related to public affairs may be required to take courses at the master's level in preparation for doctoral level study. Any requirements for preparatory coursework will be communicated at the time of acceptance into the program and will generally be taken prior to beginning doctoral-level coursework. These courses, if required, will not substitute for the listed doctoral degree requirements. Admission is offered for fall semester only.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelor's and master's degrees.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less addressing the following:
  - What is your reason for pursuing a doctoral degree in Public Affairs in our program? Be sure to include future goals and plans.
  - What research areas pertaining to Public Affairs are you interested in researching?
  - What will be your contribution as a student to the program?
- Résumé.
- A writing sample. An academic paper is preferred, but the program will consider writing samples that demonstrate analytical writing (i.e. grant applications, position papers, etc.).
- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program. Academic references are strongly preferred.

The Public Affairs Program Admissions Committee will begin reviewing applicant files once the student has submitted all of the above documents. Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. The Admissions Committee will base final admission on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

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Institution Codes
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GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
45 Total Credits

- **Details**

Public Affairs Substantive Core
9 Total Credits

- **Complete the following:**
  - PAF7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms (3)
  - PAF7230 - Strategic Change and Management for Public Affairs (3)
  - PAF7317 - Social Inquiry and Public Policy (3)

Methodological and Statistical Core
18 Total Credits

- **Complete all of the following:**
  - PAF802 - Advanced Research Methodology for Public Affairs (3)
  - PAF804 - Advanced Statistics for Public Affairs I: Multivariate Analysis (3)
  - PAF805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods (3)
  - PAF820 - Qualitative Methods for Public Affairs (3)
  - PAF7325 - Policy and Program Evaluation for Public Affairs (3)

- **Complete at least 1 of the following:**
  - PAF868 - Public Affairs Mixed Methods Research (3)
  - PAF856 - Applications of Structural Equation Modeling in Public Affairs (3)

Community-based Research
3 Total Credits

- **Earn at least 3 credits from the following types of courses:**
  - PAF 7947 - Public Affairs Community-Based Research
At the end of the required coursework, students will take the Community-Based Research course (PAF 7947). Led by a professor, the course provides the student with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem. This experiential learning brings the student out to the community while bringing the community into the university.

Track Specialization
15 Total Credits

- **Complete all of the following:**
  - **Complete the following:**
    - PAD7026 - Advanced Seminar in Public Administration (3)
    - PAD7057 - Advanced Public Management (3)
    - PAD7827 - Network Governance (3)
  - **Earn at least 6 credits from the following types of courses:**
    - Choose two additional elective courses from the following:
      - PAD 7317 - Program Design and Management 3 Credit Hours
      - PAD 7707 - Advanced Research in Public Administration 3 Credit Hours
See adviser for appropriate methodological elective 3 Credit Hours Directed independent study 3 Credit Hours Or other course that will add to the student's course of study. Requires approval of adviser 3 Credit Hours

Dissertation
15 Total Credits

- **Earn at least 15 credits from the following types of courses:**
  - PAF 7980 Dissertation Research

Grand Total Credits: 60
**Track Details**

A maximum of 6 credit hours of Independent Study may be used as electives with adviser’s approval.

Transfer work will only be accepted by the Public Affairs PhD program if taken as part of an approved plan of study for a doctoral program at UCF or elsewhere. A maximum of 6 credit hours taken at the doctoral level may be considered for transfer. The acceptance of transfer credit into the track specialization and a general elective component is dependent upon the approval of the Track Coordinator in consultation with the PAF Director. Transfer work will not be accepted into the PAF substantive or methodological core components.

A grade of B- or better is required in all courses, including Substantive Core, Methodological Core and Track Specialization/Elective courses. Students receiving a grade of C+ or below in the Substantive Core or Methodological Core courses must repeat the course and receive an acceptable grade prior to taking the Research Proficiency Exam and Qualifying Exam. Any student who receives more than one "C" in their doctoral coursework may be dismissed from the program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an "F" grade in their doctoral coursework will be dismissed from the program.

**Assignment of Faculty Advisers**

Upon acceptance of a student into the program, the program director provides students with an initial orientation and a general advising session. The Track Coordinator in conjunction with the PAF Director helps the student throughout the foundation stage of the program, assisting in the clarification of interests and goals and facilitating the introduction of students to faculty and research interests that can advance the student’s program of study. Public Administration Track students will be advised by the Public Administration Track Coordinator. The Track Coordinator assists the student in selecting elective courses, finalizing the program of study, and facilitating discussion with faculty members who have similar research interests. Discussion and review of dissertation topics should take place with the faculty member who has agreed to chair the dissertation committee. The dissertation chair is to be selected by the student prior to commencing the dissertation prospectus.

**Research Proficiency Exam and Qualifying Exam**

Upon successful completion of the first year of substantive and methodological required courses, students are required to take a Research Proficiency Exam (RPE) and Integrative Qualifying Exam (IQE). These exams assess a student’s ability to integrate the curriculum knowledge and apply it in the realm of community problem solving as it relates to policy, administration, governance, and organizations. Students are expected to demonstrate proficiency in the PAF Core Competencies.

Students are given two opportunities to pass the RPE and the QE. Students who fail any section twice are dismissed from the program. Any student who fails any the RPE twice or the QE twice will not be readmitted into the PAF program. This policy includes all tracks and/or any master's to PhD program(s) within the PAF program. Please refer to the student handbook for further information.

**Candidacy Status**

Students can officially obtain candidacy status when they have successfully completed all course work, passed the research proficiency and qualifying exams, formed their Dissertation committee, have no more than six required courses remaining (electives included) and all required paperwork has been completed and submitted. In addition, students admitted to their UCF doctoral program in Fall 2011 or a later term must complete all CITI Responsible Conduct of Research (RCR) training. Once they have obtained Candidacy status, students can register for dissertation hours.

Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
   a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
   b. Minimum of four committee members (all must hold a Graduate Faculty or Graduate Faculty Scholar appointment)
   c. At least three, and a majority of the committee, must be members of the Graduate Faculty
   d. At least one member must be from outside the department (or college, if a college-wide program)
   e. At least one member must have served previously on a thesis or dissertation committee that graduated a student, either at UCF or at another accredited institution. If the Chair does not have this experience, another graduate faculty member who has this experience may serve in this role as Vice Chair. Under certain circumstances (see page 2), a graduate faculty scholar who has previous committee experience may serve as Vice Chair.
3. Have no more than 6 total credit hours of coursework remaining (including electives)
4. Complete all required RCR Workshops and CITI Integrity Trainings
5. Complete PAF Notification of Doctoral Candidacy form

**Equipment Fee**

Full-time students in the Public Affairs Program pay a $40 equipment fee each semester that they are enrolled. Part-time students pay $20 per semester.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Public Affairs PhD - Public Affairs PhD, Social Work Track

College
College of Community Innovation and Education

Department
School of Public Administration

Track Website
https://ccie.ucf.edu/public-administration/public-affairs-phd/

Track Contact Information

Reshawna Chapple, PhD, LCSW
Associate Professor
rchapple@ucf.edu
407-823-2958
HS I, room 252

Is this track available 100% online?
No
**Track Description**

New admissions to this track have been suspended effective Fall 2021. Prospective students interested in this track are encouraged to apply directly to the Public Affairs PhD program. Students are able to select or create specializations that best align with their research interests.

The Social Work Track in the Public Affairs PhD program prepares students for university faculty and research positions, as well as leadership roles in public, non-profit and private human service, health and community-based agencies, drawing upon research and evaluation skills.

The Social Work Track in the Public Affairs PhD program prepares students for university faculty and research positions, as well as leadership roles in public, non-profit and private human service, health and community-based agencies, drawing upon research and evaluation skills. The track is designed to: (1) to develop student learning and competencies for social work scholarship and research, incorporating disciplinary knowledge in interdisciplinary contexts, and (2) to foster student learning in domains relevant to social work research in the 21st Century; namely through the understanding and application of concepts and tools in knowledge translation, evaluation, evidence-based research, the design of innovative social ventures, and the development and testing of interventions for improving social service practice, social welfare and social policy. Students applying to this track must have a Master of Social Work (MSW) for consideration.

Students must complete 60 credit hours beyond the master's degree distributed in the following manner:

- a three-course, 9-credit required Public Affairs substantive core
- a six-course, 18-credit required Public Affairs methodological and statistical core
- a three-course, 9-credit required discipline-specific specialization
- a two-course, 6-credit unrestricted elective requirement
- one course, 3-credit required Public Affairs Community-based Research
- 15 credit hours of dissertation minimum

**Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree**

**Track Prerequisites**

Applicants must hold a master's degree in Social Work from an accredited institution

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must hold a master's degree in Social Work from an accredited institution. Admission is offered for fall semester only.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended for both bachelor's and master's degrees.
- Official, competitive GRE score taken within the last five years.
- A narrative statement of 1000 words or less addressing the following:
  - What is your reason for pursuing a doctoral degree in Public Affairs in our program? Be sure to include future goals and plans.
  - What research areas pertaining to Public Affairs are you interested in researching?
  - What will be your contribution as a student to the program?
- Résumé.
- A writing sample. An academic paper is preferred, but the program will consider writing samples that demonstrate analytical writing (i.e. grant applications, position papers, etc.).
- Three letters of recommendation from faculty or professionals who can assess the applicant's ability to succeed in a doctoral program. Academic references are strongly preferred.

The Public Affairs Program Admissions Committee will begin reviewing applicant files once the student has submitted all of the above documents. Admission to the Doctoral Program in Public Affairs is granted on a competitive basis. Meeting minimum UCF admission standards does not guarantee program admissions. The Admissions Committee will base final admission on the evaluation of the applicant's abilities, past performance, recommendations, match to the program, correspondence of the applicant's career and academic interests with those of the core and affiliated faculty, and potential for completing the degree and making a significant contribution to Public Affairs.

**Application Deadlines Notes**

New admissions to this track have been suspended effective Fall 2021. Prospective students interested in this track are encouraged to apply directly to the Public Affairs PhD program. Students are able to select or create specializations that best align with their research interests.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
60 Total Credits

- Details

Public Affairs Substantive Core
9 Total Credits

- Complete the following:
  - PAF7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms (3)
  - PAF7230 - Strategic Change and Management for Public Affairs (3)
  - PAF7317 - Social Inquiry and Public Policy (3)

Methodological and Statistical Core
18 Total Credits

- Complete all of the following
  - Complete the following:
    - PAF7802 - Advanced Research Methodology for Public Affairs (3)
    - PAF7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis (3)
    - PAF7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods (3)
    - PAF7820 - Qualitative Methods for Public Affairs (3)
    - PAF7325 - Policy and Program Evaluation for Public Affairs (3)
  - Complete at least 1 of the following:
    - PAF7868 - Public Affairs Mixed Methods Research (3)
    - PAF7856 - Applications of Structural Equation Modeling in Public Affairs (3)

Community-based Research
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - PAF 7947 - Public Affairs Community-Based Research
  At the end of the required coursework, students will take the Community-Based Research course (PAF 7947). Led by a professor, the course provides the student with the opportunity to work within an interdisciplinary team to use their substantive learning and apply their methodological and statistical tools to a real community problem. This experiential learning brings the student out to the community while bringing the community into the university.

Track Specialization
15 Total Credits

- Complete all of the following
  - Complete the following:
    - SOW6383 - Social Work Administration (3)
    - SOW7492 - Theory Building in Social Work and Applied Social Science Disciplines (3)
    - SOW7494 - Conducting Evidence-based Practice Research in Social Work and Allied Fields (3)
  - Earn at least 6 credits from the following types of courses:
    - Choose two additional courses from the following: SOW 7397 - Social Entrepreneurship in Public and Social Sectors 3 Credit Hours
    - See adviser for appropriate methodological elective 3 Credit Hours
    - Directed reading 3 Credit Hours
    - Other course that will add to the student's course of study. Requires approval of adviser. 3 Credit Hours

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - PAF 7980 Dissertation Research

Grand Total Credits: 60
Track Details

A maximum of 6 credit hours of Independent Study may be used as electives with adviser's approval.

Transfer work will only be accepted by the Public Affairs PhD program if taken as part of an approved plan of study for a doctoral program at UCF or elsewhere. A maximum of 6 credit hours taken at the doctoral level may be considered for transfer. The acceptance of transfer credit into the track specialization or general elective component is dependent upon the approval of the Track Coordinator in consultation with the PAF Director. Transfer work will not be accepted into the PAF substantive or methodological core components.

A grade of B- or better is required in all Substantive Core and Methodological Core courses. Students receiving a grade of "C+" or lower will be required to repeat the course and receive a grade of B- or better prior to taking the Research Proficiency Exam and Qualifying Exam. Any student who receives more than one "C" in their doctoral course work may be dismissed from the program.

A minimum of 3.0 graduate status GPA and program of study GPA is required to maintain graduate student status and for graduation. Students with a GPA less than 3.0 may be dismissed from the program.

Any student who receives an "F" grade in their doctoral course work will be dismissed from the program.

Assignment of Faculty Advisers

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Candidacy Status

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Students officially enter candidacy when the following work has been accomplished:

1. Pass Integrative and Research Proficiency Qualifying Exams
2. Form an appropriate Dissertation Committee by established university deadline:
   a. Chair (Graduate Faculty member who is eligible to chair a dissertation committee)
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   c. At least three, and a majority of the committee, must be members of the Graduate Faculty
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Equipment Fee

Full-time students in the Public Affairs Program pay a $40 equipment fee each semester that they are enrolled. Part-time students pay $20 per semester.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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http://finaid.ucf.edu

Fellowship Information

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Public Budgeting and Finance Graduate Certificate

College
College of Community Innovation and Education

Department
School of Public Administration

Program Website
https://ccie.ucf.edu/public-administration/

Program Contact Information

Edlira Dursun, MPA, MNM
Graduate Adviser, MPA, MPP Programs
Edlira.dursun@ucf.edu
Telephone: 407-823-1139
DPAC 446B

Is this program available 100% online?

No

Licensure Disclosure

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Public-Budgeting-and-Finance-GC.pdf.

Program Description

The Graduate Certificate in Public Budgeting and Finance is designed to meet the growing needs in our governments to understand and apply varied and complex budgeting and financial practices. The program is primarily aimed at students who wish to specialize in budgeting and finance careers in the public sector. The certificate curriculum prepares students to pursue the Certified Government Finance Officer designation from the Florida Government Finance Officers Association.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

Admission is open to those with a bachelor’s degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- An official transcript in a sealed envelope from each college/university attended, showing a GPA of 2.5 or better on a 4.0 scale.
- A current, professional resume.
- Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant’s ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
  - What is your reason for pursing graduate study in Public Budgeting and Finance, including your future goals and plans?
  - What specific areas of Public Budgeting and Finance interest you?
  - Any previous work experience in the field.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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<tr>
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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - PAD6207 - Public Financial Management (3)
  - PAD6227 - Public Budgeting (3)
  - PAD6238 - Revenue Policy and Administration (3)
  - PAD6616 - Economic Principles for Public Policy and Management (3)

Electives
6 Total Credits

- Complete at least 2 of the following:
  - PAD5356 - Managing Community and Economic Development (3)
  - PAD5850 - Grant and Contract Management (3)
  - PAD5855 - Introduction to Public Procurement (3)
  - PAD6208 - Nonprofit Financial Management (3)
  - PAD6234 - Public Capital and Debt (3)
  - PAD6254 - Economics of Land Use Planning and Development (3)
  - PAD6260 - Fundamentals of Public Sector Accounting (3)

Grand Total Credits: **18**

Program Details

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Public Policy Analysis Graduate Certificate

College

College of Community Innovation and Education

Department

School of Public Administration

Program Website

https://ccie.ucf.edu/public-administration/

Program Contact Information

Abdul-Akeem Sadiq, PhD
Associate Professor
Director, Public Administration Programs
Abdul-akeem.sadiq@ucf.edu
Telephone: 407-823-3925

Edlira Dursun, MPA, MNM
Graduate Adviser, MPA, MPP
Edlira.dursun@ucf.edu
Telephone: 407-823-1139
DPAC 446B

Is this program available 100% online?

No
Program Description

The Public Policy Analysis Graduate Certificate is primarily designed to complement the Master of Public Administration (MPA) program by providing a formalized path for students to specialize in public policy analysis. This certificate is designed for students interested in a range of policy domains such as urban, environmental, transportation, economic development, emergency management, disaster, homeland security, and health. The program will prepare graduate students for professional careers as policy analysts and leaders in public service at all levels of government and in the private and nonprofit sectors, with a particular focus on public policy formulation, implementation, and evaluation. This Certificate may be completed entirely online.

The Graduate Certificate in Public Policy Analysis is comprised of 18 credit hours of graduate courses, including four required courses and two electives. This certificate prepares students for professional careers in Public Policy Analysis.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor’s Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5 on a 4.0 scale, in a sealed envelope, from each college/university attended.
- A current, professional resume.
- Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant’s ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
  - What is your reason for pursuing graduate study in Public Policy Analysis, including your future goals and plans?
  - What specific areas of Public Policy Analysis interest you?
  - Any previous work experience in the field.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

Graduate Application Deadlines

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Graduate School Contact

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Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - PAD6035 - Public Administration in the Policy Process (3)
  - PAD6307 - Public Policy Analysis and Management (3)
  - PAD6616 - Economic Principles for Public Policy and Management (3)
  - PAD6327 - Public Program Evaluation Techniques (3)

Electives
6 Total Credits

- Complete at least 2 of the following:
  - PAD6238 - Revenue Policy and Administration (3)
  - PAD6701 - Analytical Techniques for Public Administration (3)
  - PAD6829 - Network Analysis in Public Policy and Management (3)
  - PAD5356 - Managing Community and Economic Development (3)
  - PAD6387 - Transportation Policy (3)
  - PAD6353 - Environmental Planning and Policy (3)
  - Course Not Found
  - CCJ6106 - Policy Analysis in Criminal Justice (3)
  - PHC6146 - Health Planning and Policy (3)

Grand Total Credits: 18

Program Details

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Public Policy MPP

College
College of Community Innovation and Education

Department
School of Public Administration

Program Website
https://ccie.ucf.edu/public-administration/public-policy/

Program Contact Information

Abdul-Akeem Sadiq PhD
Associate Professor
Director Public Administration and Public Policy Programs
Abdul-Akeem.Sadiq@ucf.edu

Edlira Dursun MPA, MNM
Graduate Adviser, MPA, MPP Programs
Edlira.Dursun@ucf.edu
Telephone: 407-823-2604
DPAC 446B

Is this program available 100% online?
No
Program Description

The Master of Public Policy (MPP) is primarily a face-to-face, campus-based program, designed to prepare students for professional careers as policy analysts, policy evaluators, and leaders in the public sector. Students will learn and apply evidence-based public policy formulation, implementation, and evaluation framework in a range of policy domains including urban policy, environmental policy, educational policy, health policy, transportation policy, economic development policy, immigration policy, disaster policy, homeland security policy, science and technology policy, criminal justice policy, and international/global policy. The MPP will serve as a platform to adequately prepare students for doctoral studies in public administration.

Students will enhance and practice their knowledge and skills through the development of various core competencies including public policy and governance, law and economic principles, research methods and tools, program analysis and evaluation, organization management and network analysis, public leadership and decision-making process and specific courses dedicated to unique topics within public policy.

The Master of Public Policy (MPP) consists of 36 credit hours. Each student completes a core of six courses (18 credit hours), one Capstone Experience course (3 credit hours) and an advanced curriculum of electives (15 credit hours).

The face-to-face courses are offered in the evenings during the week at the UCF Downtown campus. The MPP program incorporates group projects in courses intended to develop leadership abilities while also providing an opportunity to demonstrate how students work as part of a team in most courses. These projects promote important intellectual and social skills and help to prepare students for work in a world in which teamwork and collaboration are increasingly the norms.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. All requested materials must be submitted by the established deadline. The MPP program is offered as a campus-based classroom (face-to-face) program. Admission is open to those with a bachelor's degree from a regionally accredited institution with a minimum overall undergraduate GPA of 3.0 or better (on a 4.0 scale) or in the last 60 hours. Applicants must apply online. Students must submit all required materials by the established deadline. Materials received after the established deadline may not be considered. Admission to this graduate program is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- Three letters of recommendation specifically for the MPP program evaluating scholarly and professional capacity. Letters from professors from the colleges/universities attended are preferred, but if that is not feasible, letters from current or past supervisors will be accepted. The recommender must address the applicant's work ethic and ability to succeed at graduate-level academic work.
- Current professional résumé including public service experience (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
  - Personal background and career aspirations in public policy or public service.
  - Reason for pursuing graduate study in public policy, including future career goals and plans.
  - Specific areas of public policy that interests you.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only
- All international students must meet university minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.
- The GRE is not required for admission to this program.

A limited number of students who do not meet the GPA requirements may be admitted on a provisional basis. These students must demonstrate public policy or public administration experience and provide a clear goal statement.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Public Policy MPP</th>
<th>*Fall Priority</th>
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<tbody>
<tr>
<td>Domestic Applicants</td>
<td>Jan 15</td>
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<td>International Applicants</td>
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</tr>
</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Core Courses (See Program Details for Course Prerequisites)  
18 Total Credits

- Complete the following:
  - PAD6700 - Research Methods in Public Administration (3)
  - PAD6701 - Analytical Techniques for Public Administration (3)
  - PAD6035 - Public Administration in the Policy Process (3)
  - PAD6307 - Public Policy Analysis and Management (3)
  - PAD6327 - Public Program Evaluation Techniques (3)
  - PAD6616 - Economic Principles for Public Policy and Management (3)

Capstone 
3 Total Credits

- Students will engage in a capstone experience that builds upon the knowledge and skills gained from completing the core courses in the MPP program. Students will complete this requirement through enrollment in PAD 6848 - Policy Analysis Capstone. The Capstone Experience course is offered in fall and spring semesters only and may be taken following the completion of all core courses. It may not be combined with a core course in the same semester.

Course 
3 Total Credits

- Complete the following:
  - PAD6848 - Policy Analysis Capstone (3)

Electives 
9 Total Credits

- Complete at least 3 of the following:
  - PAD5337 - Urban Design (3)
  - PAD6234 - Public Capital and Debt (3)
  - PAD6037 - Public Organization Management (3)
  - PAD6036 - Change Management in Public Organizations (3)
  - PAD6053 - Public Administrators in the Governance Process (3)
  - PAD6227 - Public Budgeting (3)
  - PAD6238 - Revenue Policy and Administration (3)
  - PAD6260 - Fundamentals of Public Sector Accounting (3)
  - PAD6335 - Strategic Planning and Management (3)
  - PAD6439 - Leadership in Public Service (3)

Policy Specialization Electives 
6 Total Credits

- Select from the following courses or courses otherwise approved by the Program Director (3 Credit Hours each). Students take two policy specialization courses to focus on a specific policy domain, including but not limited to Urban Policy, Economic Development Policy, Environmental and Energy Policy, Transportation Policy, Education Policy, Health Policy, Science and Technology Policy, Disaster Policy, and Criminal Justice Policy.

Courses 
6 Total Credits

- Complete at least 2 of the following:
  - PAD5337 - Urban Design (3)
  - PAD5356 - Managing Community and Economic Development (3)
  - CCJ6106 - Policy Analysis in Criminal Justice (3)
  - CCJ6485 - Issues in Justice Policy (3)
  - PAD6339 - Housing Development and Planning (3)
  - PAD6353 - Environmental Planning and Policy (3)
  - PAD6387 - Transportation Policy (3)
  - PAD6398 - Hazard Analysis and Disaster Planning (3)
  - PAD6399 - Foundations of Emergency Management and Homeland Security (3)
  - PHC6146 - Health Planning and Policy (3)
  - PAD6357 - Urban Resilience (3)
  - PAD5930 - Global Cities (3)
  - PAD6036 - Change Management in Public Organizations (3)
  - PAD6826 - Urban Policy and Regional Governance (3)

Grand Total Credits: 36
Program Details

Courses and credit hours used for undergraduate degrees cannot also be applied toward the MPP degree, except for Senior Scholar students. Students approved as undergraduates at UCF to participate in the Senior Scholar program may, with the permission of the MPP Program Director, use up to 9 credit hours of graduate coursework taken as part of the bachelor’s degree toward the MPP degree. However, no undergraduate-level courses will be accepted in the MPP program.

Required Core Courses Prerequisites

- PAD 6701 - Analytical Techniques for Public Administration - Prerequisite PAD 6700

Additional Program Requirements

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements and in the Capstone Experience course.

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

The School of Public Administration incorporates service-learning into some courses. Service-learning is a teaching method that provides a means for every student to enhance his or her academic program with experiential learning opportunities. Service-learning provides an opportunity for students to work with community partners by collecting and compiling data and producing quality products that will be beneficial to both students and organizations.

Students are expected to be computer literate and have computer internet access upon entry to the program.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry, dialogue, and service-learning. Tangible projects, such as scholarly research, papers, internships, and the capstone experience also contribute to the self-development of MPP students. The research paper and Learning and Professional Development Portfolio in the Capstone Experience focus on creating, reviewing and analyzing contemporary issues with Public Policy and its applications.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Reading Education Graduate Certificate

College

College of Community Innovation and Education

Department

School of Teacher Education

Program Website

https://ccie.ucf.edu/teachered/k-12/reading-education/
**Program Contact Information**

Michelle Kelley EdD  
Professor  
michelle.kelley@ucf.edu  
Education Complex 315N

**Is this program available 100% online?**  
No

**Licensure Disclosure**

The Graduate Certificate in Reading Education meets the Florida Department of Education Reading Endorsement requirements and prepares classroom teachers with an emphasis on evidence-based strategies for assessment and instruction of K-12 reading. The Reading Education Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Reading-Education-GC.pdf.

**Program Description**

The Graduate Certificate in Reading Education provides teachers with research-based strategies for teaching reading.

For the Reading Education certificate, students complete six required courses (18 credit hours total). Although there are no program course prerequisites, candidates who have had no previous children's or adolescent literature courses are strongly encouraged to take one course (LAE 5415 - Children's Literature in Elementary Education or LAE 5465 - Literature for Adolescents) prior to enrolling in the certificate program or at least prior to enrolling in RED 6846 - Reading Practicum.

**Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree**

**Program Prerequisites**

Applicants must show proof of one of the following: Florida professional teaching certificate, Florida Department of Education Statement of Eligibility indicating that all requirements for professional (not temporary) certification have been met, completion of a state-approved initial teacher preparation program (undergraduate or graduate), or admission to a graduate-level state-approved preparation program.

**Application Requirements**

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must show proof of one of the following: Florida professional teaching certificate, Florida Department of Education Statement of Eligibility indicating that all requirements for professional (not temporary) certification have been met, completion of a state-approved initial teacher preparation program (undergraduate or graduate), or admission to a graduate-level state-approved preparation program.

**Graduate Application Deadlines**

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<thead>
<tr>
<th>Reading Education Graduate Certificate</th>
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**Graduate School Contact**

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

2021-2022 Graduate Catalog
Degree Requirements

Required Courses

18 Total Credits

- Complete the following:
  - RED5147 - Developmental Reading (3)
  - RED5517 - Classroom Diagnosis and Development of Reading Proficiencies (3)
  - RED6845 - Advanced Evaluation and Instruction in Reading (3)
  - RED6846 - Reading Practicum (6)
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)

Grand Total Credits: 18

Program Details

*Online delivery course.

- RED 5147 - Developmental Reading 3 Credit Hours *
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms 3 Credit Hours *

Reading Education MEd

College

College of Community Innovation and Education

Department

School of Teacher Education

Program Website

https://ccie.ucf.edu/teachered/k-12/reading-education/

Program Handbook

Reading Education MEd

Program Contact Information

Michelle Kelley EdD
Professor
michelle.kelley@ucf.edu
Education Complex 315N

Is this program available 100% online?

Yes

UCF Online

Please note: Reading Education MEd may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

The College of Community Innovation and Education offers a Master of Education degree in Reading Education. The program prepares teachers for certification as specialized literacy professionals (e.g., literacy or instructional coach, reading expert, reading resource teacher, reading/language arts supervisor) in grades K-12 in public and private schools and other settings that provide literacy services. Based on evidence-based research, the curriculum includes assessment, intervention, and instruction in literacy. This includes the focus on content area and disciplinary literacy and leadership and coaching. There is considerable emphasis on practica with diverse learners from early childhood to adult levels. Professionals currently certified as Florida teachers are eligible to pursue a degree in the program. The Reading Education MEd program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Reading-Ed-MEd.pdf.
**Program Description**

The Master of Education in Reading Education program prepares teachers for certification as specialized literacy professionals (e.g., literacy or instructional coach, reading expert, reading resource teacher, reading/language arts supervisor) in grades K-12 in public and private schools and other setting that provide literacy services.

The Master of Education in Reading Education is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The Master of Education in Reading Education program requires a minimum of 30 credit hours beyond the bachelor's degree, including 9 credit hours of core courses, 15 credit hours of specialization courses, and 6 credit hours of a practicum. Students who do not currently hold a Florida ESOL Endorsement must select the specified Teaching English to Speakers of Other Languages course, TSL 5085, as a corequisite. All students must pass a final comprehensive exam, complete a portfolio according to program guidelines, and pass the Reading K-12 Subject Area Exam of the Florida Teacher Certification Examination.

**Total Credit Hours Required:** 30 Credit Hours Minimum beyond the Bachelor's Degree

**Program Prerequisites**

Possess or be fully eligible for a professional teaching certificate in one or more other teacher certification specializations in Florida.

The following courses meet state certification requirements or as support for the degree program. Choose one of the following from the clusters below, unless previously met in an undergraduate or similar course (substitutions will be approved by an advisor):

**Children's Literature:**
- LAE 5415 - Children's Literature in Elementary Education 3 Credit Hours
- LAE 5465 - Literature for Adolescents 3 Credit Hours

**Language Arts Methods**
- LAE 5319 - Methods of Elementary School Language Arts 3 Credit Hours
- LAE 5346 - Methods of Teaching English Language Arts 3 Credit Hours

**Corequisite**

Students who are not ESOL Endorsed must complete the following course:
- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms 3 Credit Hours

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Possess or be fully eligible for a professional teaching certificate in one or more other teacher certification specializations in Florida.
- The GRE is not required for admission to this program.
- Résumé or CV
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

**Graduate Application Deadlines**

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<tr>
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</table>

**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core
9 Total Credits

- Complete the following:
  - EDF6432 - Measurement and Evaluation in Education (3)
  - RED5147 - Developmental Reading (3)
  - RED5517 - Classroom Diagnosis and Development of Reading Proficiencies (3)

Specialization
15 Total Credits

- Complete the following:
  - RED6116 - Advanced Study in Foundations of Reading (3)
  - RED6336 - Teaching Content Area and Disciplinary Literacy (3)
  - RED6337 - Reading in the Secondary School (3)
  - RED6746 - Literacy Leadership and Coaching (3)
  - RED6845 - Advanced Evaluation and Instruction in Reading (3)

Practicum
6 Total Credits

- The MEd program requires a practicum experience. Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.

Course
6 Total Credits

- Complete the following:
  - RED6846 - Reading Practicum (6)

Grand Total Credits: 30

Program Details

Additional Graduation Requirements

- All students must complete a comprehensive examination.
- Complete an electronic portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices and Standards for Literacy Professionals.
- Pass Reading K-12 Subject Area Exam of the Florida Teacher Certification Examination.

Independent Learning

The MEd program also requires a practicum experience. Practica are independent learning activities that take place in authentic settings in which students must apply, reflect on, and refine knowledge and skills acquired in the program.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Research Administration Graduate Certificate

College
College of Community Innovation and Education

Department
School of Public Administration

Program Website
https://ccie.ucf.edu/public-administration/

Program Contact Information

Angela White-Jones PhD
Program Director
Angela.White-Jones@ucf.edu
Telephone: 407-823-2604

Nasrin Lakhani, MNM
Graduate Advisor
Nasrin@ucf.edu
Telephone: 407-823-0912

Is this program available 100% online?
Yes

UCF Online

Please note: Research Administration Graduate Certificate may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

2021-2022 Graduate Catalog
Program Description

The Graduate Certificate in Research Administration is an 18-credit online certificate that provides an overview of the core concepts in research administration for those interested in management within research organizations. The Certificate is intended to meet the needs of individuals seeking a focused experience in order to prepare for or advance their careers in research management and leadership. It is appropriate for students who seek to expand their knowledge, but who do not wish to commit to a master's degree program.

Credit earned in the certificate program may be applied toward the Master of Research Administration (MRA) degree. However, admission to the MRA degree program has separate requirements from those of the certificate program. Students considering continuing into the master's degree should familiarize themselves with the credit transfer policy and consult with a faculty adviser early in their certificate program. The Graduate Certificate in Research Administration requires that students complete 18 credit hours of courses. Students must maintain at least a 3.0-grade point average in order to be awarded the Graduate Certificate. The certificate must be completed within three years.

The Graduate Certificate in Research Administration requires 18 credit hours of online courses that provide an overview of the core concepts in research administration. Students take 12 credit hours of required courses and choose 6 credit hours of elective courses.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5, in a sealed envelope, from each college/university attended.
- A current, professional résumé.
- Statement of Goals: This is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be no longer than two pages and should address the following:
  - What is your reason for pursuing graduate study in Research Administration, including your future goals and plans?
  - What specific areas of Research Administration interest you?
  - Working in Research Administration is preferred, not required.
- Applicants who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

Admission to this certificate program is limited. Please refer to the specific MRA program website for tuition rates. The University of Central Florida does not accept State Employee Waivers for this certificate program.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Research Administration Graduate Certificate</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - PAD6742 - Introduction to Research Administration (3)
  - PAD6743 - Leadership and Organization Models in Research Administration (3)
  - PAD6747 - Audits in Research Administration (3)
  - PAD6741 - Research Integrity for Research Administrators (3)

Elective Courses
6 Total Credits

- Complete at least 2 of the following:
  - PAD6748 - Governance and Regulatory Issues for Sponsored Programs (3)
  - PAD6745 - Contracting for Sponsored Programs (3)
  - PAD6744 - Financial Management in Research Administration (3)
  - PAD6746 - Intellectual Property, Technology Transfer and Commercialization (3)

Grand Total Credits: 18

Program Details

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Cost Per Credit Hour

For the Graduate Certificate in Research Administration, the cost per credit hour is $655.62.*

*Fee is subject to change

Research Administration MRA

College
College of Community Innovation and Education

Department
School of Public Administration

Program Website
https://ccie.ucf.edu/public-administration/research-administration/

Program Handbook
Research Administration MRA

Program Contact Information

Angela White-Jones PhD
Program Director
angela.White-Jones@ucf.edu
Telephone: 407-823-2604

Nasrin Lakhani, MNM
Nasrin@ucf.edu
Telephone: 407-823-0912

Is this program available 100% online?
Yes
**UCF Online**

**Please note:** Master of Research Administration (MRA) may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit [http://global.ucf.edu/](http://global.ucf.edu/). If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

**Program Description**

The Master in Research Administration provides the professional skills and management theories and techniques to prepare individuals to practice as highly trained and ethical research administrators. The completely online program builds a solid foundation in research administration and leadership that enables graduates to work in a variety of research organizations such as universities, hospitals and medical centers, industry, and research institutes and centers.

This program is a professional program and is considered a part-time program. For more information, please visit [www.ce.ucf.edu/Program-Search/1381/Master-Of-Research-Administration/](http://www.ce.ucf.edu/Program-Search/1381/Master-Of-Research-Administration/).

Graduates of the program will be able to: integrate the history and values of the profession into a professional identity; apply organizational development theories in leadership and human resource management; demonstrate knowledge of and compliance with the legal, ethical and regulatory framework that governs research; apply sound financial management concepts in proposal development and funded sponsored projects; negotiate and monitor sponsored contracts and subcontracts; write and evaluate grant proposals; apply the law in regards to intellectual property, technology transfer and commercialization; identify new areas for collaborative grant opportunities; and respond to financial and non-financial audits of research grants and contracts.

The Master in Research Administration program requires a minimum of 36 credit hours beyond the bachelor's degree. The program is offered completely online in a lock-step and cohort-based model. Students take two courses each semester and complete the degree program in two years (six semesters). In the final course students complete an evaluation project as a culminating activity that engages them in the application of theory, research policy, regulatory frameworks, ethics, and professional standards and practices within their area of focus.

**Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor’s Degree**

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale) from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation specifically for the MRA program. Letters of recommendation should be from professors, researchers, or professional research administrators who can attest to the applicant’s ability to succeed in graduate coursework and his or her work ethic.
- Résumé: The most current, professional resume should be provided.
- Statement of goals: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express him or herself in writing. The goal statement must be single-spaced, one-inch margins, and no longer than two pages (500-800 words). Applicant must address each item listed below when completing the goal statement:
  - Reason for pursuing graduate study in research administration, including future goals and plans.
  - Topics or areas of special interest in research administration.
  - Expectations of the graduate program.
  - What the applicant will bring to the program that would make him or her a special candidate for admission to this limited access program.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All International students must meet university minimum TOEFL requirements regardless of the language in which the undergraduate program was completed.

This program does not accept State Employee Waivers.

Admission to this program is limited. The Master in Research Administration is a highly competitive program that admits one cohort annually in the fall semester and one cohort in the spring semester. Applicants are encouraged to apply early to this program because once the cohort reaches capacity for an entering class, admissions will be closed for that academic year.

All requested material must be submitted by the established deadline date. Materials received after the established deadline may not be considered.

Students are expected to be computer literate upon entry to the program. This program is completely online, so computer skills and computer internet access are necessary to take the courses.
Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Research Administration MRA</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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<tr>
<td>Domestic Applicants</td>
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<td>Nov 1</td>
</tr>
</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

The Spring 2022 Application Deadline has been extended until December 1, 2021.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Research Administration Concentration Core Courses
27 Total Credits

- Complete the following:
  - PAD6742 - Introduction to Research Administration (3)
  - PAD6748 - Governance and Regulatory Issues for Sponsored Programs (3)
  - PAD6743 - Leadership and Organization Models in Research Administration (3)
  - PAD6744 - Financial Management in Research Administration (3)
  - PAD6745 - Contracting for Sponsored Programs (3)
  - PAD6746 - Intellectual Property, Technology Transfer and Commercialization (3)
  - PAD6747 - Audits in Research Administration (3)
  - PAD6741 - Research Integrity for Research Administrators (3)
  - PAD6327 - Public Program Evaluation Techniques (3)

Additional Required Courses
9 Total Credits

- Complete the following:
  - PAD5850 - Grant and Contract Management (3)
  - PAD6417 - Human Resource Management (3)
  - PAD6335 - Strategic Planning and Management (3)

Grand Total Credits: 36
Program Details

Additional Program Requirements

- Students must achieve a grade of "B-" (80%) or higher in all Research Administration concentration courses (PAD 67XX level and PAD 6327).
- Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Cost Per Credit Hour

For the Master of Research Administration program, the cost per credit hour is $655.62.*

*Fee is subject to change

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry, dialogue and service learning. Tangible projects such as strategic plans, grant proposals, commercialization plans and case studies along with research projects, scholarly papers, internships, and presentations at professional conferences also contribute to the self development of our students.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

School Psychology EdS

College

College of Community Innovation and Education

Department

Department of Counselor Education & School Psychology

Program Website

https://ccie.ucf.edu/cesp/school-psychology/

Program Handbook

School Psychology EdS

Program Contact Information

Oliver Edwards PhD
Professor
oliver.edwards@ucf.edu
Telephone: 407-823-2401
Education 209H

Is this program available 100% online?

No
Licensure Disclosure

The School Psychology EdS program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-School-Psychology-EdS.pdf.

Program Description

The School Psychology EdS program is designed for students who wish to become certified School Psychologists. This specialist degree has very specific curriculum to meet the respective licensing requirements for school psychologists.

The EdS in School Psychology is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The School Psychology Program is a unique specialization in psychology and education. This program is based on two assumptions. School psychologists can apply relevant knowledge and skills from a variety of disciplines to the learning and adjustment problems of preschool and school-age children. Also, relevant knowledge and skills can be transmitted through a variety of services including (a) consultation with teachers and parents, (b) direct and indirect services to children and young adults, and (c) direct and indirect services to school and community organizations. School psychologists may practice in public or private schools, colleges and universities, rehabilitation centers, hospitals, mental health clinics, government agencies, child guidance centers, penal institutions, and may develop private practices. Applicants with backgrounds in education, psychology or other closely related undergraduate majors may qualify for the School Psychology degree program.

The program involves formal preparation and practical experiences focusing on psychological foundations (human development, learning, and motivation), psychoeducational assessment, exceptional students, remediation or intervention techniques, counseling skills, as well as a full-time supervised internship of two semesters in the public school setting.

The School Psychology EdS degree requires a minimum of 74 credit hours beyond the bachelor’s degree, as well as a portfolio, practicum and research report at the completion of study. Please note that 62 credit hours are completed before internship. The research report and internship courses comprise 18 credit hours that are completed during the internship.

Total Credit Hours Required: 74 Credit Hours Minimum beyond the Bachelor’s Degree

Program Prerequisites

A baccalaureate degree in Education, Psychology, or related discipline.

Prerequisites or Co-requisites (DOE Certification)

- TSL 5085 - Teaching Language Minority Students in K-12 Classrooms 3 Credit Hours
- RED 5147 - Developmental Reading 3 Credit Hours
- EEX 6061 - Instructional Strategies Pre-K-6 3 Credit Hours
- EEX 6218 - Diagnostic Assessment and Intervention Planning in Exceptional Education 3 Credit Hours

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will receive priority consideration for admission by attending an Information Session with program faculty. Call (407) 823-2401 for meeting dates or visit the program website at https://ccie.ucf.edu/cesp/school-psychology/.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A baccalaureate degree in Education, Psychology, or related discipline.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation (one from a faculty member).
- Resumé.
- A one-page goal statement.
- Receive a favorable recommendation for admission by the School Psychology Review Committee.

This program can only accommodate a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met. Admissions to this program will only occur in the fall term. Information concerning specific admissions policies and procedures can be obtained from the program website: https://ccie.ucf.edu/cesp/school-psychology/. All other questions will be answered during the Information Sessions prospective students are required to attend.
Graduate Application Deadlines

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<thead>
<tr>
<th>School Psychology EdS</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

The Fall 2022 Application Deadline has been extended until April 1, 2022.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
56 Total Credits

- Core
  3 Total Credits
  - Complete the following:
    - EDF6401 - Statistics for Educational Data (3)

Specialization
47 Total Credits

- Complete the following:
  - SPS6601 - Introduction to Psychological Services in Schools (3)
  - SPS6606 - Consultation in School Psychology (3)
  - SPS6608 - Seminar in School Psychology (3)
  - SPS6801 - Developmental Bases of Diverse Behaviors (3)
  - SPS6225 - Behavioral and Observational Analysis of Classroom Interactions in Schools (3)
  - SPS6931 - Ethical and Legal Issues in School Psychological Services (3)
  - MHS6401 - Techniques of Counseling (3)
  - SPS6191 - Individual Psychoeducational Diagnosis I (4)
  - SPS6192 - Individual Psychoeducational Diagnosis II (4)
  - SPS6125 - Preschool Psychoeducational Assessment (3)
  - SPS6194 - Assessment of Special Needs (3)
  - SPS6206 - Psychoeducational Interventions (3)
  - SPS6700 - Advanced Psychoeducation and Data-Based Decision Making (3)
  - SPS6605 - Building and Improving Relationship and Emotional Intelligence (3)
  - SPS6175 - Cultural Diversity and Nonbiased Assessment (3)

Research Report
6 Total Credits

- Complete 1 of the following
  - Earn at least 6 credits from the following:
    - SPS6909 - Research Report (1 - 99)
  - Complete the following:
    - SPS6402 - Applied Prevention and Intervention in Schools I (3)
    - SPS6403 - Applied Prevention and Intervention in Schools II (3)

Practicum and Internship
18 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - SPS6946L - Practicum in School Psychology (3)
  - Earn at least 12 credits from the following:
    - SPS6948 - School Psychology Internship (6)

Grand Total Credits: 74

Program Details

With the exception of SPS 5605 - Building and Improving Relationship and Emotional Intelligence, and SPS 6700 - Advanced Psychoeducation and Data-Based Decision Making, SPS courses are only open to students in the School Psychology Program.

Additional Program Requirements

- Complete an electronic portfolio that documents reflections on study and learning experiences throughout the program and receive approval by the School Psychology faculty.
- Pass a comprehensive exam.
- Pass the Florida Teacher Certification Examination (FTCE).

Equipment Fee

Students in the School Psychology EdS program pay a $90 equipment fee each semester that they are enrolled. A materials fee of $45 is charged for each of four assessment courses.

Independent Learning

A practicum and research report are required as the culminating independent learning experience.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

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Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Secondary Education MEd

College
College of Community Innovation and Education

Department
School of Teacher Education

Program Website
https://ccie.ucf.edu/teachered/secondaryed/

Program Contact Information

Janet Andreasen PhD
Senior Lecturer
janet.andreasen@ucf.edu
ED 123H

Is this program available 100% online?
No

Program Description

The Master of Education (MEd) program in Secondary Education is designed for professionally certified and experienced educators who want to improve their knowledge and skills in teaching students and colleagues in their content area. Students engage in action research within the walls of their classroom. Coursework includes secondary education courses as well as content-specific courses in each track.

This degree does not prepare students for initial, administrative, or supervisory certification.

This degree has 5 tracks: English Language Arts Education Track, Mathematics Education Track, Science Education Track, Social Science Education Track, and World Languages Education Track. Please scroll to the bottom of this page for further details on these Tracks.

Graduate Application Deadlines

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Program Details

Independent Learning
The MEd requires a course-based action research study and completion of a culminating experience.

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Secondary Education MEd - Secondary Education MEd, English Language Arts Education Track

College
College of Community Innovation and Education

Department
School of Teacher Education

Track Website
https://ccie.ucf.edu/teachered/secondaryed/

Track Contact Information

Elsie Olan PhD
Associate Professor
elsie.olan@ucf.edu
Telephone: 407-823-5179
Education 223 N
Is this track available 100% online?

No

Track Description

The English Language Arts Education track in the Secondary Education MEd program is designed to meet the advanced knowledge and skill needs of the English classroom teacher.

The English Language Arts Education track in the Master of Education (MEd) in Secondary Education program requires 21 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 12 credit hours of specialization courses.

Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Resume
- Goal Statement
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
33 - 36 Total Credits

- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators must be taken in first semester of the program.

Core
15 Total Credits

- Complete the following:
  - EDS5356 - Mentoring and Clinical Supervision of Pre-professional Educators (3)
  - ESE5344 - Managing the Secondary Classroom (3)
  - ESE6036 - Contemporary Issues in Secondary Education (3)
  - EME6053 - Teaching and Learning with Emerging Technologies (3)
  - LAE5496 - Disciplinary Literacy in the Content Areas (3)

Culminating Experience
6 - 9 Total Credits

- Complete all of the following
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)

- Complete 1 of the following
  - ESE6427 - Capstone: Action Research in Secondary Education (3)
  - Earn at least 6 credits from the following types of courses:
    - LAE, MAE, SCE, or SSE 6971 Thesis

Specialization:
12 Total Credits

- Earn at least 12 credits from the following:
  - LAE6637 - Research in Teaching English (3)
  - LAE5295 - Writing Workshop (1 - 3)
  - LAE5369 - Literacy Strategies in a Digital Age for Middle and High School (3)
  - LAE5495 - Assessing Writing (3)
  - LAE6296 - Advanced Writing Workshop (1 - 3)
  - LAE6366 - Advanced Studies in Adolescent Literature (3)

Grand Total Credits: 33 - 36

Track Details

Independent Learning
The MEd requires a course-based action research study and completion of a capstone experience (research report or thesis).

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu
Secondary Education MEd - Secondary Education MEd, Mathematics Education Track

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Track Website**
https://ccie.ucf.edu/teachered/secondaryed/

**Track Contact Information**
Janet Andreasen PhD
Senior Lecturer
ED 123H
janet.andreasen@ucf.edu

**Is this track available 100% online?**
No

**Track Description**
The Mathematics Education track in the Secondary Education MEd program is designed to meet the advanced knowledge and skill needs of the classroom teacher of mathematics.

The Mathematics Education track in the Secondary Education MEd program requires 21 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 12 credit hours of specialization courses.

**Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**
Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

**Application Requirements**
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Resume
- Goal Statement
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

**Graduate Application Deadlines**

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<th>Mathematics Education</th>
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**Application Deadlines Notes**
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Graduate School Contact

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gradadmissions@ucf.edu  
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Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address  
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PO Box 160112  
Orlando, FL 32816-0112

Institution Codes  
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GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Required Courses  
33 - 36 Total Credits

- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators must be taken in first semester of the program.

Core  
15 Total Credits

- Complete the following:
  - EDS5356 - Mentoring and Clinical Supervision of Pre-professional Educators (3)
  - ESE5344 - Managing the Secondary Classroom (3)
  - ESE6036 - Contemporary Issues in Secondary Education (3)
  - EME6053 - Teaching and Learning with Emerging Technologies (3)
  - LAE5496 - Disciplinary Literacy in the Content Areas (3)

Culminating Experience  
6 - 9 Total Credits

- Complete all of the following
  - Complete the following:
    - EDF6472 - Data-Driven Decision-Making for Instruction (3)

- Complete 1 of the following
  - Complete the following:
    - ESE6427 - Capstone: Action Research in Secondary Education (3)

- Earn at least 6 credits from the following types of courses:
  - LAE, MAE, SCE, or SSE 6971 Thesis

Specialization  
12 Total Credits

- Complete all of the following
  - Complete the following:
    - MAE6337 - Teaching Algebra in the Secondary School (3)
    - MAE6338 - Teaching Geometry in the Secondary School (3)

- Complete at least 2 of the following:
  - MAE6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher (3)
  - MAE6641 - Problem Solving and Critical Thinking Skills (3)
  - MAE6656 - Using Technology in the Instruction of K-12 Mathematics (3)
  - MAE6899 - Seminar in Teaching Mathematics (3)
  - IDS6516 - Leadership Development for Mathematics and Science Teachers (3)
  - IDS6910 - Research in Mathematics and Science Education (3)
  - IDS6937 - Teaching Mathematics and Science Using Reform-Based Practices (3)
  - IDS6939 - Reforming Curriculum in Mathematics and Science Education (3)

Grand Total Credits: 33 - 36

Track Details

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience (research report or thesis).
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Secondary Education MEd - Secondary Education MEd, Science Education Track

College
College of Community Innovation and Education

Department
School of Teacher Education

Track Website
https://ccie.ucf.edu/teachered/secondaryed/

Track Contact Information

Su Gao PhD
Assistant Professor
su.gao@ucf.edu
Telephone: 407-823-4834
ED 115 F

Is this track available 100% online?
No

Track Description
The Science Education track in the Secondary Education MEd program is designed to meet the advanced knowledge and skill needs of certified secondary science teachers, enabling them to expand their subject matter knowledge and professional teaching skills.

The Science Education track in the Secondary Education MEd program requires 21 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 12 credit hours of specialization courses.

Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

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- The GRE is not required for admission to this program.
- Resume
- Goal Statement
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
33 - 36 Total Credits

- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators must be taken in first semester of the program.

Courses
15 Total Credits

- Complete the following:
  - EDS5356 - Mentoring and Clinical Supervision of Pre-professional Educators (3)
  - ESE5344 - Managing the Secondary Classroom (3)
  - ESE6036 - Contemporary Issues in Secondary Education (3)
  - EME6053 - Teaching and Learning with Emerging Technologies (3)
  - LAE5496 - Disciplinary Literacy in the Content Areas (3)

Culminating Experience
6 - 9 Total Credits

- Complete all of the following
  - Complete the following:
    - EDF6472 - Data-Driven Decision-Making for Instruction (3)
  - Complete 1 of the following
    - ESE6427 - Capstone: Action Research in Secondary Education (3)
    - Earn at least 6 credits from the following types of courses:
      - LAE, MAE, SCE, or SSE 6971 Thesis

Specialization
12 Total Credits

- Complete all of the following
  - Complete at least 2 of the following:
    - SCE5836 - Space and Physical Science for Educators (3)
    - ISC6146 - Environmental Education for Educators (3)
    - IDS6516 - Leadership Development for Mathematics and Science Teachers (3)
    - IDS6937 - Teaching Mathematics and Science Using Reform-Based Practices (3)
    - IDS6939 - Reforming Curriculum in Mathematics and Science Education (3)
  - Earn at least 6 credits from the following types of courses:
    - Biology Focus HUN 5247 - Principles of Human Nutrition 3 Credit Hours
    - IDS 5127 - Foundation of Bio-Imaging Science 3 Credit Hours
    - BCH 6740 - Advanced Biochemistry 3 Credit Hours
    - Any graduate-level course with prefix BSC, HSC, MCB, PCB, or ZOO Chemistry Focus
    - Any graduate-level course with prefixes AST, OSE, PHY, or PHZ

Grand Total Credits: 33 - 36

Track Details

The Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience (research report or thesis).

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

2021-2022 Graduate Catalog
Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Secondary Education MEd - Secondary Education MEd, Social Science Education Track

College
College of Community Innovation and Education

Department
School of Teacher Education

Track Website
https://ccie.ucf.edu/teachered/secondaryed/

Track Contact Information

Scott Waring PhD
Professor
socscied@ucf.edu
ED 206

Is this track available 100% online?
No

Track Description

The Social Science Education track in the Secondary Education MEd program is designed to meet the advanced knowledge and skill needs of the Social Science classroom teacher.

The Social Science Education track in the Secondary Education MEd program requires 21 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 12 credit hours of specialization courses.

Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Resume
- Goal Statement
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

2021-2022 Graduate Catalog
Graduate Application Deadlines

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Required Courses**
33 - 36 Total Credits
- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators must be taken in first semester of the program.

**Core**
15 Total Credits
- Complete the following:
  - EDS5356 - Mentoring and Clinical Supervision of Pre-professional Educators (3)
  - ESE5344 - Managing the Secondary Classroom (3)
  - ESE6036 - Contemporary Issues in Secondary Education (3)
  - EME6053 - Teaching and Learning with Emerging Technologies (3)
  - LAE5496 - Disciplinary Literacy in the Content Areas (3)

**Culminating Experience**
6 - 9 Total Credits
- Complete all of the following
- Complete the following:
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)
- Complete 1 of the following
  - ESE6427 - Capstone: Action Research in Secondary Education (3)
  - Earn at least 6 credits from the following types of courses:
    - LAE, MAE, SCE, or SSE 6971 Thesis

**Specialization**
12 Total Credits
- Complete at least 4 of the following:
  - SSE5391 - Global Education: Theory and Practice (3)
  - SSE5776 - Democracy and Education (3)
  - SSE6348 - Foundations and Fundamentals of Teaching History in the K-12 Classroom (3)
  - SSE6388 - Digital History in the K-12 Classroom (3)
  - SSE6387 - Teaching with Film (3)
  - SSE6396 - Teaching with Primary Sources in the History Classroom (3)
  - SSE6636 - Contemporary Social Science Education (3)

**Grand Total Credits:** 33 - 36

**Track Details**

**Independent Learning**
The MEd requires a course-based action research study and completion of a capstone experience (research report or thesis).

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu
http://finaid.ucf.edu

**Fellowship Information**

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

2021-2022 Graduate Catalog
Secondary Education MEd - Secondary Education MEd, World Languages Education Track

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Track Website**
https://ccie.ucf.edu/teachered/secondaryed/

**Track Contact Information**
Michele Regalla PhD
Associate Professor
Michele.Regalla@ucf.edu
Telephone: 407-823-5791

**Is this track available 100% online?**
No

**Track Description**
The World Languages Education track in the Secondary Education MEd program is designed to meet the advanced knowledge and skill needs of the world languages and/or dual language classroom teacher.

The World Languages Education track in the Master of Education (MEd) in Secondary Education program requires 21 credit hours of core courses, including completion of a capstone research project or thesis. In addition, students take 12 credit hours of specialization courses.

**Total Credit Hours Required: 33-36 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**
Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

**Application Requirements**
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Resume
- Goal Statement
- Evidence of eligibility for a professional teaching certificate in Florida in related area and/or sustained teaching experience within schools/colleges (approved by track coordinator).

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

**Graduate Application Deadlines**

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**Application Deadlines Notes**
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
**Graduate School Contact**

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

Required Courses  
33 - 36 Total Credits

- EDS 5356 - Mentoring and Clinical Supervision of Pre-professional Educators must be taken in first semester of the program.

Core  
15 Total Credits

- Complete the following:
  - EDS5356 - Mentoring and Clinical Supervision of Pre-professional Educators (3)  
  - ESE5344 - Managing the Secondary Classroom (3)  
  - ESE6036 - Contemporary Issues in Secondary Education (3)  
  - LAE5496 - Disciplinary Literacy in the Content Areas (3)  
  - EME6053 - Teaching and Learning with Emerging Technologies (3)

Culminating Experience  
6 - 9 Total Credits

- Complete all of the following
  - EDF6472 - Data-Driven Decision-Making for Instruction (3)

- Complete 1 of the following
  - ESE6427 - Capstone: Action Research in Secondary Education (3)

- Earn at least 6 credits from the following types of courses:  
  LAE, MAE, SCE, or SSE 6971 Thesis

Specialization  
12 Total Credits

- Complete all of the following
  - Complete the following:
    - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
    - TSL6250 - Applied Linguistics in ESOL (3)

  - Complete at least 1 of the following:
    - FLE5345 - Teaching World Languages in K-12 Schools (3)
    - TSL5345 - Methods of ESOL Teaching (3)

  - Complete at least 1 of the following:
    - FLE6695 - Professional Development in Foreign Language Education (3)
    - TSL5525 - ESOL Cultural Diversity (3)
    - TSL6379 - Second Language Literacy (3)
    - TSL6143 - Curriculum and Instruction in Dual Language Programs (3)
    - TSL6377 - Bilingualism, Multiculturalism, and Biliteracy in the Dual Language Classroom (3)
    - TSL6443 - Assessment in Dual Language Programs (3)

Grand Total Credits: **33 - 36**
Track Details

Independent Learning

The MEd requires a course-based action research study and completion of a capstone experience (research report or thesis).

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Social Justice in Public Service Graduate Certificate

College
College of Community Innovation and Education

Department
School of Public Administration

Program Website
https://ccie.ucf.edu/public-administration/socialjustice

Program Contact Information

Staci Zavattaro PhD
Professor
Staci.Zavattaro@ucf.edu

Nasrin Lakhani
Director, Student Support Services
nasrin.lakhani@ucf.edu

Is this program available 100% online?
No

Program Description

The Social Justice in Public Service graduate certificate seeks to develop leaders who can understand how public policies influence social justice. Students will obtain a background in social justice, exploring topics such as human rights, income distribution and the role of markets. Students will understand factors that contribute to inequity among various groups, with a focus on providing theories and methods to analyze social justice issues in public service. They will understand principles of social justice as they apply to government and nonprofit sector in education, health, transportation.

Graduate Certificate in Social Justice in Public Administration consists of 15 credit hours. Each student will complete 6 credit hours of core courses and 9 credit hours of restricted electives.

This certificate is primarily a face-to-face program but students will be able to select electives from the list of restricted electives that may be offered on-line. Classes are offered at UCF Downtown campus in the evenings.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 2.5 in a sealed envelope, from each college/university, attended.
- Current professional résumé including experience in the field (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant’s ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the reason for pursuing graduate study in Social Justice related to Public Administration.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core
6 Total Credits
- Complete the following:
  - PAD5185 - Foundations of Social Justice for Public Service (3)
  - PAD5186 - Policy Advocacy for Social Justice (3)

Restricted Electives
9 Total Credits
- Complete at least 3 of the following:
  - Course Not Found
  - EDF6886 - Multicultural Education (3)
  - INR6067 - Human Rights and Security (3)
  - INR6062 - Peace Studies (3)
  - INR6356 - Environmental Security (3)
  - PAD5356 - Managing Community and Economic Development (3)
  - PAD5930 - Global Cities (3)
  - PAD6357 - Urban Resilience (3)
  - PAD6825 - Cross-Sectoral Governance (3)
  - PUP6324 - Women and Public Policy (3)
  - SYO6409 - Social Inequalities in Health (3)
  - SYO6404 - Food Insecurity and Health (3)
  - PAD6938 - Special Topics (3)

Grand Total Credits: 15

Program Details

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements.

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

The School of Public Administration incorporates service learning into some courses. Service learning is a teaching method that provides a means for every student to enhance his or her academic program with experiential learning opportunities. Service learning provides an opportunity for students to work with community partners by collecting and compiling data and producing quality products that will be beneficial to both students and organizations.

Students are expected to be computer literate and have computer internet access upon entry to the program.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Tangible projects, such as research scholarly papers and internships also contribute to the self-development of students.

Social Science Education Graduate Certificate

College
College of Community Innovation and Education

Department
School of Teacher Education

Program Website
https://ccie.ucf.edu/teachered/secondaryed/

Program Contact Information
Scott Waring PhD
Associate Professor
socscied@ucf.edu
Telephone: 407-823-1766
ED 206J

Is this program available 100% online?
No
Program Description

The Social Science Education Graduate Certificate is for teachers who instruct students in social science content in grade levels K-12. The program is designed to improve the quality of teaching and learning in social science classrooms. Graduates of the K-12 Social Science program form a strong infrastructure of teachers focusing on long-term impact in schools while helping students succeed in learning social science content. The focus of the K-12 Social Science Education Graduate Certificate is to provide all graduates with exceptional pedagogical and subject matter knowledge and skills by focusing on research-based, state-of-the-art best practices in social science education.

Other K-12 Social Science Education Programs

A Master of Education in K-12 Social Science Education is available. Students who successfully complete the graduate certificate may transfer credits from the Social Science Education Graduate Certificate into the MEd program, if they meet the acceptance criteria and are admitted into the MEd in Social Science Education program. In addition, the K-12 Social Science Education master's program is closely allied with the Education PhD, Social Science Education Track. Graduates of the Social Science Education master's program have been very successful in completing advanced graduate degrees.

The graduate certificate in Social Science Education includes four required courses chosen from the list of approved courses.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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gradadmissions@ucf.edu
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Institution Codes
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GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete at least 4 of the following:
  - EDS5356 - Mentoring and Clinical Supervision of Pre-professional Educators (3)
  - SSE5391 - Global Education: Theory and Practice (3)
  - SSE5776 - Democracy and Education (3)
  - SSE5790 - Inquiry and Instructional Analysis in Social Science Education (3)
  - SSE6115 - Methods in Elementary School Social Science (3)
  - SSE6348 - Foundations and Fundamentals of Teaching History in the K-12 Classroom (3)
  - SSE6387 - Teaching with Film (3)
  - SSE6388 - Digital History in the K-12 Classroom (3)
  - SSE6396 - Teaching with Primary Sources in the History Classroom (3)
  - SSE6636 - Contemporary Social Science Education (3)

Grand Total Credits: 12
Special Education Graduate Certificate

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Program Website
https://ccie.ucf.edu/exceptional-student-education/

Program Contact Information
Mary Little PhD
Professor
mary.little@ucf.edu
Telephone: 407-823-3275
ED 315J

Is this program available 100% online?
Yes

UCF Online

Please note: Special Education Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure
The Special Education Graduate Certificate program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Special-Education-GC.pdf.

Program Description
The Graduate Certificate in Special Education provides out-of-field teachers and students with some of the coursework needed to meet state certification requirements in special education.

The Special Education certificate will help out-of-field teachers become more effective in their classrooms and will enhance the delivery of education to children and youth with disabilities.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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2021-2022 Graduate Catalog
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gradadmissions@ucf.edu
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Millican Hall 230

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Institution Codes
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TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete the following:
  - EEK5051 - Exceptional Children in the Schools (3)
  - EEK6061 - Instructional Strategies Pre-K-6 (3)
  - EEK6065 - Programming for Students with Disabilities at the Secondary Level (3)
  - EEK6107 - Teaching Spoken and Written Language (3)
  - EEK6295 - Assessment and Curriculum Prescriptions for the Exceptional Population (3)
  - EEK6612 - Methods of Behavioral Management (3)

Grand Total Credits: 18

Student Athlete Support Services Graduate Certificate

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Program Website
https://ccie.ucf.edu/elhe/

Program Contact Information

Thomas Cox EdD
thomas.cox@ucf.edu
ED 315Q

Is this program available 100% online?
No

Program Description

This certificate is designed to assist entry level and current professionals to better perform associated duties in the various athletic academic content areas. Emphasis is on the development and expansion of student-athlete services to enhance academic success, leadership skills, administration of athletics in universities, and student development as an integral part of the student-athlete experience. Additionally, it is designed to expand their knowledge of topics relevant to student athletics including student development theory, organization and administration, athletics in American universities, and academic success in the student athlete. Those enrolled in the program must complete a practical internship. The program also provides a benefit to practicing athletic advisors and administrators and faculty interested in becoming more knowledgeable in these areas.

Total Credit Hours Required: 16 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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<tr>
<th>Student Athletic Support Services Graduate Certificate</th>
<th>*Fall Priority</th>
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</table>

Graduate School Contact

Brandon Ruff
ggradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits

- Complete the following:
  - EDH6047 - Theories of College Student Development (3)
  - EDH6407 - Ethical and Legal Issues in Student Personnel (3)
  - EDH6635 - Organization and Administration of Higher Education (3)
  - EDH6655 - Athletics in the American University (3)
  - EDH6656 - Academic Success and the Student Athlete (3)

Internship
1 Total Credits

- Earn at least 1 credits from the following types of courses:
  - EDH 6946 - Internship Students will complete a 1 credit hour internship (15-20 hours) in an athlete services office or position approved by the faculty advisor.

Grand Total Credits: 16

Supporting High Needs Populations Graduate Certificate

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Program Website
https://ccie.ucf.edu/lser/
Program Contact Information

Martha Lue-Stewart PhD
Professor
martha.stewart@ucf.edu
Telephone: 407-823-2036
ED 315S

Is this program available 100% online?  No

Program Description

The Graduate Certificate in Supporting High Needs Populations offers additional education and training to the educational professional who works in urban settings.

The program is comprised of two graduate courses that address critical issues associated with life in urban schools and two graduate-level specialization electives tailored to personal areas of concentration.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

<table>
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<th>Supporting High Needs Populations Graduate Certificate</th>
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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
6 Total Credits
- Complete the following:
  - EDF6725 - Critical Issues in the Study of High Needs Populations (3)
  - EDG6636 - Impact of Social Contexts on Teaching and Learning (3)

Elective Courses
6 Total Credits
- Complete at least 2 of the following:
  - EDF6155 - Lifespan Human Development and Learning (3)
  - EDF6886 - Multicultural Education (3)
  - EEX5051 - Exceptional Children in the Schools (3)
  - EEX6065 - Programming for Students with Disabilities at the Secondary Level (3)
  - EEX6342 - Seminar-Critical Issues in Special Education (3)
  - EGI6246 - Education of Special Populations of Gifted Students (3)
  - RED5147 - Developmental Reading (3)

Grand Total Credits: 12

Teacher Education MAT

College
College of Community Innovation and Education

Department
School of Teacher Education

Program Website
https://ccie.ucf.edu/teachered/

Program Handbook
Teacher Education MAT
Program Contact Information

Janet Andreasen PhD
Senior Lecturer
janet.andreasen@ucf.edu
ED 123-H

Debra McGann EdD
Associate Lecturer
debra.mcgann@ucf.edu
ED 122C

Elsie Olan PhD
Associate Professor
elsie.olan@ucf.edu
Education 223 N

Enrique Ortiz PhD
Professor
enrique.ortiz@ucf.edu
Telephone: 407-823-5222
Education 123G

Su Gao PhD
Assistant Professor
su.gao@ucf.edu
Telephone: 407-823-4834
ED 115 F

Scott Waring PhD
Professor
socsced@ucf.edu
ED 206J

William Russell PhD
Professor
russell@ucf.edu
Telephone: 407-823-4345
Education 115J

Licensure Disclosure
This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/licensure-programs/.

Program Description
The Master of Arts in Teaching graduate program was created to allow individuals who are not certified to teach to become effective, certified teachers of secondary content areas.

The MAT program offers tracks in 10 secondary content areas: Art Education, English Education, Mathematics Education, Middle School Mathematics Education, Science Education-Biology, Science Education-Chemistry, Science Education-Physics, Science Education-Middle School, Social Science Education, and World Languages Education. Please scroll to the bottom of this page for further details on these Tracks. Graduation from this state-approved MAT includes the successful completion of a 6-hour internship, submission of a comprehensive portfolio, and passing scores on all sections of the Florida Teacher Certification Examination. The Master of Arts in Teaching admits in summer and fall terms only.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see education.ucf.edu/teach_grad.cfm for more information.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Financial Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Teacher Education MAT - Teacher Education MAT, Art Education Track

College
College of Community Innovation and Education

Department
School of Teacher Education

Track Website
https://ccie.ucf.edu/teachered/k-12/art-education/

Track Handbook
Teacher Education MAT

Track Contact Information
Debra McGann EdD
Associate Lecturer
debra.mcgann@ucf.edu
ED 122C

Is this track available 100% online?
Yes
Please note: Teacher Education MA, Art Education Track may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

The Teacher Education MAT, Art Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-MAT.pdf.

Track Description

The Teacher Education MAT, Art Education program is a state-approved initial teacher preparation program for students seeking certification to teach Art in grades K-12, including students previously certified to teach in another field.

The Master of Arts in Teaching is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The Teacher Education MAT, Art Education requires a minimum of 37 credit hours beyond the bachelor's degree. The program is a K-12 program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See http://ccie.ucf.edu/explore-via/

Total Credit Hours Required: 37 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's admission process.

Graduate Application Deadlines

<table>
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<th>Art Education</th>
<th>*Fall Priority</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact
Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
28 Total Credits

- EDG 6415 and TSL 5085 must be taken prior to internship.

Core
12 Total Credits

- Complete the following:
  - EDG6415 - Principles of Instruction and Classroom Management (3)
  - EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)
  - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)

Specialization
16 Total Credits

- Complete the following:
  - RED5147 - Developmental Reading (3)
  - ARE5359 - Teaching Art K-12 (4)
  - ARE6905 - Research Trends in Art Education (3)
  - ARE5251 - Art for Exceptionalities (3)
  - ARE6195 - Teaching Art Appreciation with Interdisciplinary Strategies (3)

Internship
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - ARE 6946 - Graduate Internship (6 Credit Hours taken over two semesters**)
    - The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring. Students should ensure that they meet all requirements for Graduate Internship. - Complete EDG 6415 and TSL 5085. - Overall graduate GPA must be 3.0 or higher. - Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship. - Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.education.ucf.edu/clinicalexp/ - Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience
3 Total Credits

- Earn at least 3 credits from the following:
  - ESE6256 - Critical Issues in Secondary Education (1 - 3)

Grand Total Credits: 37
**Track Details**

**Additional Program Requirements**
- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 30 credit hours of art course work to be prepared to take the subject area exam in Art for grades K-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

**Equipment Fee**
Students in the Master of Arts in Teacher Education program pay a $64 equipment each semester that they are enrolled. Part-time students pay $32 per semester.

**Independent Learning**
The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via™ by Watermark is required for the portfolio. In addition, an internship is required.

**Financial Information**
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

**Fellowship Information**
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

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**Teacher Education MAT - Teacher Education MAT, English Language Arts Education with ESOL Endorsement Track**

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Track Website**
https://ccie.ucf.edu/teachered/english-language-arts-education/

**Track Contact Information**

**Elsie Olan PhD**
Associate Professor
elsie.olan@ucf.edu
Telephone: 407-823-5179
Education 223 N
Is this track available 100% online?

No

Licensure Disclosure

The Teacher Education MAT, English Language Arts Education with ESOL Endorsement Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-MAT.pdf.

Track Description

The Teacher Education MAT, English Language Arts Education with ESOL Endorsement program is a state-approved initial teacher preparation program for students seeking certification to teach English in grades 6-12, including students previously certified to teach in another field.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The Teacher Education MAT, English Language Arts Education with ESOL Endorsement program requires a minimum of 42 credit hours beyond the bachelor's degree that includes ESOL endorsement and the option of adding Reading K-12 endorsement. The program is a secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All key assignments are critical components of learning since they are the primary means of assessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See http://ccie.ucf.edu/explore-via/

Total Credit Hours Required: 42 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's admission process.

Graduate Application Deadlines

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Application Deadlines Notes

* Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
33 Total Credits
- EDG 6415 and TSL 5085 must be taken prior to internship.

Core (Must be taken prior to internship)
12 Total Credits
- Complete the following:
  - EDG6415 - Principles of Instruction and Classroom Management (3)
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
  - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
  - EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)

Specialization
21 Total Credits
- Complete all of the following
  - LAE6637 - Research in Teaching English (3)
  - LAE5338 - Teaching Writing in Middle and High School (3)
  - LAE5346 - Methods of Teaching English Language Arts (3)
  - LAE5465 - Literature for Adolescents (3)
  - TSL6250 - Applied Linguistics in ESOL (3)
- Complete at least 1 of the following:
  - LAE5369 - Literacy Strategies in a Digital Age for Middle and High School (3)
  - RED5147 - Developmental Reading (3)
- Complete at least 1 of the following:
  - ESE6036 - Contemporary Issues in Secondary Education (3)
  - ESE5344 - Managing the Secondary Classroom (3)

Internship
6 Total Credits
- Earn at least 6 credits from the following types of courses:
  - LAE 6946 - Graduate Internship (6 Credit Hours taken over two semesters***)

***The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. On the job internships must be completed over one academic year. Traditional 6-credit internships are completed in spring semester only. Students should ensure that they meet all requirements for Graduate Internship.
- Complete EDG 6415 and TSL 5085 prior to first semester internship.
- Overall graduate GPA must be 3.0 or higher.
- Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship.
- Students must apply and be approved for graduate internship.

Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience
3 Total Credits
- Earn at least 3 credits from the following:
  - ESE6256 - Critical Issues in Secondary Education (1 - 3)

Grand Total Credits: 42
Track Details

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Students are recommended to have 30 credit hours of English course work to be prepared to take the subject area exam in English for grades 6-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.
- Pass all applicable sections of the Florida Teacher Certification Examination.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a $64 equipment each semester that they are enrolled. Part-time students pay $32 per semester.

Independent Learning

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Teacher Education MAT - Teacher Education MAT, Mathematics Education Track

College

College of Community Innovation and Education

Department

School of Teacher Education

Track Website

https://ccie.ucf.edu/teachered/secondaryed/math-education/

Track Handbook

Teacher Education MAT

Track Contact Information

Janet Andreasen PhD
Senior Lecturer
janet.andreasen@ucf.edu
ED 123H
Is this track available 100% online?

No

Licensure Disclosure

The Teacher Education MAT, Mathematics Education program is a state-approved initial teacher preparation program for students seeking certification to teach Mathematics in grades 6-12, including students previously certified to teach in another field. The Teacher Education MAT, Mathematics Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-MAT.pdf.

Track Description

The Teacher Education MAT, Mathematics Education program is a state-approved initial teacher preparation program for students seeking certification to teach Mathematics in grades 6-12, including students previously certified to teach in another field. A track is also available for Middle School Mathematics (grades 5-9).

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see education.ucf.edu/teach_grad.cfm for more information.

The Teacher Education MAT, Mathematics Education program requires a minimum of 39 credit hours beyond the bachelor’s degree. The program is a secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See http://ccie.ucf.edu/explore-via/

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university’s application process.

Graduate Application Deadlines

<table>
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<tr>
<th>Mathematics Education</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
18 Total Credits

- Details

Core (Must be taken prior to internship)
12 Total Credits

- Complete the following:
  - EDG6415 - Principles of Instruction and Classroom Management (3)
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
  - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
  - EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)

Methods
6 Total Credits

- Complete the following:
  - LAE5496 - Disciplinary Literacy in the Content Areas (3)
  - MAE5336 - Current Methods in Secondary School Mathematics (3)

Elective Courses
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ESE5344 - Managing the Secondary Classroom (3)
    - ESE6036 - Contemporary Issues in Secondary Education (3)
  - Complete at least 2 of the following:
    - MAE6337 - Teaching Algebra in the Secondary School (3)
    - MAE6338 - Teaching Geometry in the Secondary School (3)
    - MAE6656 - Using Technology in the Instruction of K-12 Mathematics (3)
    - MAE6641 - Problem Solving and Critical Thinking Skills (3)

Internship
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - MAE 6946 - Graduate Internship (6 Credit Hours taken over two semesters) ***The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. On the job internships must be completed over one academic year. Traditional 6-credit internships are completed in spring semester only. Students should ensure that they meet all requirements for Graduate Internship. - Complete EDG 6415 and TSL 5085 prior to first semester of internship. - Overall graduate GPA must be 3.0 or higher. - Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship. - Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical and Field Experiences at http://www.education.ucf.edu/clinicalexp/ - Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience (taken in the final internship semester)
3 Total Credits

- Earn at least 3 credits from the following:
  - ESE6256 - Critical Issues in Secondary Education (1 - 3)

Grand Total Credits: 39
Track Details

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 30 credit hours of mathematics coursework to be prepared to take the subject area examination in mathematics grades 6-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a $64 equipment each semester that they are enrolled. Part-time students pay $32 per semester.

Independent Learning

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Teacher Education MAT - Teacher Education MAT, Middle School Mathematics Education Track

College
College of Community Innovation and Education

Department
School of Teacher Education

Track Website
https://ccie.ucf.edu/teachered/secondaryed/math-education/

Track Handbook
Teacher Education MAT

Track Contact Information
Enrique Ortiz PhD
Professor
enrique.ortiz@ucf.edu
Telephone: 407-823-5222
Education 123G

2021-2022 Graduate Catalog
Is this track available 100% online?
No

Licensure Disclosure

The Teacher Education MAT, Middle School Mathematics Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-MAT.pdf.

Track Description

The Teacher Education MAT, Middle School Mathematics Education program is a state-approved initial teacher preparation program for students seeking certification to teach mathematics in grades 5-9, including students previously certified to teach in another field.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The Teacher Education MAT, Middle School Mathematics Education is a state-approved initial teacher preparation program for students seeking certification to teach mathematics in grades 5-9, including students previously certified to teach in another field.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see https://ccie.ucf.edu/teachered/teach-grad/ for more information.

The Teacher Education MAT, Middle School Mathematics Education program requires a minimum of 39 credit hours beyond the bachelor’s degree. The program is a secondary (grades 5-9) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See https://ccie.ucf.edu/explore-via/.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor’s Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's application process.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
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Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
18 Total Credits
- EDG 6415 and TSL 5085 must be taken prior to internship.

Core Courses
12 Total Credits
- Complete the following:
  - EDG6415 - Principles of Instruction and Classroom Management (3)
  - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
  - EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)

Methods Courses
6 Total Credits
- Complete the following:
  - LAE5496 - Disciplinary Literacy in the Content Areas (3)
  - MAE5327 - Teaching Middle School Mathematics (3)

Elective Courses
12 Total Credits
- Complete all of the following
  - Complete the following:
    - ESE6036 - Contemporary Issues in Secondary Education (3)
    - ESE5344 - Managing the Secondary Classroom (3)
  - Complete at least 2 of the following:
    - MAE6337 - Teaching Algebra in the Secondary School (3)
    - MAE6338 - Teaching Geometry in the Secondary School (3)
    - MAE6641 - Problem Solving and Critical Thinking Skills (3)
    - MAE6656 - Using Technology in the Instruction of K-12 Mathematics (3)

Internship
6 Total Credits
- Earn at least 6 credits from the following types of courses:
  - MAE 6946 - Graduate Internship (6 Credit Hours taken over two semesters. The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring. Students should ensure that they meet all requirements for Graduate Internship. - Complete EDG 6415 and TSL 5085 before first semester of internship. - Overall graduate GPA must be 3.0 or higher. - Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship. - Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.education.ucf.edu/clinicalexperience - Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience
3 Total Credits
- Earn at least 3 credits from the following:
  - ESE6256 - Critical Issues in Secondary Education (1 - 3)

Grand Total Credits: 39
Track Details

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 18 credit hours of mathematics coursework to be prepared to take the subject area exam in Middle Grades Mathematics for grades 5-9. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a $64 equipment each semester that they are enrolled. Part-time students pay $32 per semester.

Independent Learning

The MAT requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment for all of the Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

Financial Information

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Teacher Education MAT - Teacher Education MAT, Middle School Science Education Track

College

College of Community Innovation and Education

Department

School of Teacher Education

Track Website

https://ccie.ucf.edu/teachered/secondaryed/science-education/

Track Handbook

Teacher Education MAT
Track Contact Information

Su Gao PhD
Assistant Professor
su.gao@ucf.edu
Telephone: 407-823-4834
ED 115 F

Is this track available 100% online?

No

Licensure Disclosure

This Teacher Education MAT, Middle School Science Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-MAT.pdf.

Track Description

The Teacher Education MAT, Middle School Science Education program is a state-approved initial teacher preparation program for students seeking certification to teach science in grades 5-9, including students previously certified to teach in another field.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The Teacher Education MAT, Middle School Science Education is a state-approved initial teacher preparation program for students seeking certification to teach science in grades 5-9, including students previously certified to teach in another field.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see https://ccie.ucf.edu/teachered/teach-grad/ for more information.

The Teacher Education MAT, Middle School Science Education program requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a secondary (grades 5-9) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See https://ccie.ucf.edu/explore-via/.

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's application process.

Graduate Application Deadlines

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

Required Courses  
30 Total Credits

- EDG 6415 and TSL 5085 must be completed prior to internship.

Core Courses  
12 Total Credits

- Complete the following:
  - EDG6415 - Principles of Instruction and Classroom Management (3)  
  - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)  
  - EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)  
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)

Specialization Courses  
18 Total Credits

- Complete the following:
  - LAE5496 - Disciplinary Literacy in the Content Areas (3)  
  - SCE5325 - Teaching Middle School Science (3)  
  - ISC6146 - Environmental Education for Educators (3)  
  - SCE5836 - Space and Physical Science for Educators (3)  
  - ESE5344 - Managing the Secondary Classroom (3)  
  - ESE6036 - Contemporary Issues in Secondary Education (3)

Internship  
6 Total Credits

- Earn at least 6 credits from the following types of courses:  
  - SCE 6946 - Graduate Internship 6 Credit Hours (taken over two semesters). The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring. Students should ensure that they meet all requirements for Graduate Internship. - Complete EDG 6415 and TSL 5085 before first semester of internship. - Overall graduate GPA must be 3.0 or higher. - Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship. - Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.education.ucf.edu/clinicalexp/ - Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience  
3 Total Credits

- Earn at least 3 credits from the following:  
  - ESE6256 - Critical Issues in Secondary Education (1 - 3)

**Grand Total Credits:** 39
Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 18 credit hours of science coursework to be prepared to take the subject area exam in Middle Grades Science for grades 5-9. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a $64 equipment each semester that they are enrolled. Part-time students pay $32 per semester.

Independent Learning

The MAT requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

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https://funding.graduate.ucf.edu

Teacher Education MAT - Teacher Education MAT, Science Education-Biology Track

College

College of Community Innovation and Education

Department

School of Teacher Education

Track Website

https://ccie.ucf.edu/teachered/secondaryed/science-education/

Track Handbook

Teacher Education MAT

Track Contact Information

Janet Andreasen, Ph.D.
Associate Lecturer
Janet.Andreasen@ucf.edu
ED 123H
Is this track available 100% online?

No

Licensure Disclosure

This Teacher Education MAT, Science Education-Biology Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-MAT.pdf.

Track Description

The Teacher Education MAT, Science Education-Biology program is a state-approved initial teacher preparation program for students seeking certification to teach Biology in grades 6-12, including students previously certified to teach in another field.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see education.ucf.edu/teach_grad.cfm for more information.

The Teacher Education MAT, Science Education, Biology program requires a minimum of 39 credit hours beyond the bachelor’s degree. The program is a secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See http://ccie.ucf.edu/explore-via/

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

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Graduate Application Deadlines

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<th>*Fall Priority</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
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Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

2021-2022 Graduate Catalog
**Degree Requirements**

**Required Courses**
18 Total Credits

- EDG 6415 and TSL 5085 must be taken prior to internship.

**Core Courses**
12 Total Credits

- Complete the following:
  - EDG6415 - Principles of Instruction and Classroom Management (3)
  - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
  - EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)

**Methods Courses**
6 Total Credits

- Complete the following:
  - LAE5496 - Disciplinary Literacy in the Content Areas (3)
  - SCE5337 - Issues and Methods in Secondary School Science (3)

**Elective Courses**
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ESE5344 - Managing the Secondary Classroom (3)
    - ESE6036 - Contemporary Issues in Secondary Education (3)
  - Earn at least 6 credits from the following types of courses:
    - Students select 6 credit hours of electives with advisor approval.

**Internship**
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - SCE 6946 - Graduate Internship (6 Credit Hours, taken over two semesters). The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring. Students should ensure that they meet all requirements for Graduate Internship. - Complete EDG 6415 and TSL 5085 before first semester of internship. - Overall graduate GPA must be 3.0 or higher. - Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship. - Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.education.ucf.edu/clinicalexp/ - Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

**Culminating Experience**
3 Total Credits

- Earn at least 3 credits from the following:
  - ESE6256 - Critical Issues in Secondary Education (1 - 3)

Grand Total Credits: 39

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*2021-2022 Graduate Catalog*
Track Details

Additional Program Requirements

Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.

Pass all required sections of the Florida Teacher Certification Examination.

Students are recommended to have 30 credit hours of science course work to be prepared to take the subject area exam in Biology for grades 6-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a $64 equipment each semester that they are enrolled. Part-time students pay $32 per semester.

Independent Learning

The MAT requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships
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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Teacher Education MAT - Teacher Education MAT, Science Education-Chemistry Track

College

College of Community Innovation and Education

Department

School of Teacher Education

Track Website

https://ccie.ucf.edu/teachered/secondaryed/science-education/

Track Handbook

Teacher Education MAT
Track Contact Information

Su Gao PhD
Assistant Professor
su.gao@ucf.edu
Telephone: 407-823-4834
ED 115 F

Is this track available 100% online?
No

Licensure Disclosure

This Teacher Education MAT, Science Education-Chemistry Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-MAT.pdf.

Track Description

The Teacher Education MAT, Science Education program is a state-approved initial teacher preparation program for students seeking certification to teach Chemistry in grades 6-12, including students previously certified to teach in another field.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see education.ucf.edu/teach_grad.cfm for more information.

The Teacher Education MAT, Science Education program requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See http://ccie.ucf.edu/explore-via/

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume
- Goal Statement

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university’s application process.

Graduate Application Deadlines

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Application Deadlines Notes

Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

2021-2022 Graduate Catalog
Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Required Courses**
18 Total Credits
- EDG 6415 and TSL 5085 must be completed prior to internship.

**Core Courses**
12 Total Credits
- Complete the following:
  - EDG6415 - Principles of Instruction and Classroom Management (3)
  - EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)
  - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)

**Methods Courses**
6 Total Credits
- Complete the following:
  - LAE5496 - Disciplinary Literacy in the Content Areas (3)
  - SCE5337 - Issues and Methods in Secondary School Science (3)

**Elective Courses**
12 Total Credits
- Complete all of the following
  - Complete the following:
    - ESE5344 - Managing the Secondary Classroom (3)
    - ESE6036 - Contemporary Issues in Secondary Education (3)
  - Earn at least 6 credits from the following types of courses:
    - Students earn 6 credit hours of elective courses approved by advisor.

**Internship**
6 Total Credits
- Earn at least 6 credits from the following types of courses:
  - SCE 6946 - Graduate Internship (6 Credit Hours, taken over two semesters). The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring. Students should ensure that they meet all requirements for Graduate Internship. - Complete EDG 6415 and TSL 5085 before first semester of internship. - Overall graduate GPA must be 3.0 or higher. - Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship. - Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.education.ucf.edu/clinicalexperiences/ Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida - Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

**Culminating Experience**
3 Total Credits
- Earn at least 3 credits from the following:
  - ESE6256 - Critical Issues in Secondary Education (1 - 3)

**Grand Total Credits:** 39
**Track Details**

**Additional Program Requirements**
- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 30 credit hours science coursework to be prepared to take the subject area exam in Chemistry for grades 6-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

**Equipment Fee**
Students in the Master of Arts in Teacher Education program pay a $64 equipment each semester that they are enrolled. Part-time students pay $32 per semester.

**Independent Learning**
The MAT requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

**Financial Information**
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Appointment Line: 407-823-5285
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finaid@ucf.edu
http://finaid.ucf.edu

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**Grad Fellowships**
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

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**Teacher Education MAT - Teacher Education MAT, Science Education-Physics Track**

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Track Website**
https://ccie.ucf.edu/teachered/secondaryed/science-education/Teacher Education MAT

**Track Handbook**
Teacher Education MAT

**Track Contact Information**

**Su Gao PhD**
Assistant Professor
su.gao@ucf.edu
Telephone: 407-823-4834
ED 115 F

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2021-2022 Graduate Catalog
Is this track available 100% online?

No

Licensure Disclosure

The Teacher Education MAT, Science Education-Physics Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-MAT.pdf.

Track Description

The Teacher Education MAT, Science Education - Physics program is a state-approved initial teacher preparation program for students seeking certification to teach Physics in grades 6-12, including students previously certified to teach in another field.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

Students in the Mathematics Education and Science Education tracks may be eligible for Teacher Education Assistance for College and Higher Education (TEACH) grant. Please see education.ucf.edu/teach_grad.cfm for more information.

The Teacher Education MAT, Science Education - Physics program requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See http://ccie.ucf.edu/explore-via/

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's application process.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

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PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
18 Total Credits

- EDG 6415 and TSL 5085 must be taken prior to internship.

Core
12 Total Credits

- Complete the following:
  - EDG 6415 - Principles of Instruction and Classroom Management (3)
  - EDF 6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
  - EDF 6237 - Principles of Learning and Introduction to Classroom Assessment (3)
  - TSL 5085 - Teaching Language Minority Students in K-12 Classrooms (3)

Methods
6 Total Credits

- Complete the following:
  - LAE 5496 - Disciplinary Literacy in the Content Areas (3)
  - SCE 5337 - Issues and Methods in Secondary School Science (3)

Elective Courses
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ESE 5344 - Managing the Secondary Classroom (3)
    - ESE 6036 - Contemporary Issues in Secondary Education (3)
  - Earn at least 6 credits from the following types of courses:
    - Electives approved by advisor: 6 credits

Internship
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - SCE 6946 - Graduate Internship (6 Credit Hours, taken over two semesters ***) ***The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring. Students should ensure that they meet all requirements for Graduate Internship. - Complete EDG 6415 and TSL 5085 before first semester of internship. - Overall graduate GPA must be 3.0 or higher. - Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship. - Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.education.ucf.edu/clinicalexp/- Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience
3 Total Credits

- Earn at least 3 credits from the following:
  - ESE 6256 - Critical Issues in Secondary Education (1 - 3)

Grand Total Credits: 39
Track Details

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 30 credit hours of science coursework to be prepared to take the subject area exam in Physics for grades 6-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a $64 equipment each semester that they are enrolled. Part-time students pay $32 per semester.

Independent Learning

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Teacher Education MAT - Teacher Education MAT, Social Science Education Track

Track Handbook
Teacher Education MAT

Track Contact Information

Scott Waring PhD
Professor
socscied@ucf.edu
ED 206J

William Russell PhD
Professor
russell@ucf.edu
Telephone: 407-823-4345
Education 115J

Is this track available 100% online?
No
Licensure Disclosure

The Teacher Education MAT, Social Science Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-MAT.pdf.

Track Description

The Teacher Education MAT, Social Science Education program is a state-approved initial teacher preparation program for students seeking certification to teach Social Science in grades 6-12, including students previously certified to teach in another field.

The Master of Arts in Teaching is a state-approved initial teacher preparation program that is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The Teacher Education MAT, Social Science Education program requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a secondary (grades 6-12) program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See http://ccie.ucf.edu/explore-via/

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

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Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

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UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- EDG 6415 and TSL 5085 must be taken prior to internship.

Core Courses
12 Total Credits

- Complete the following:
  - EDG6415 - Principles of Instruction and Classroom Management (3)
  - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
  - EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)

Methods
6 Total Credits

- Complete the following:
  - LAE5496 - Disciplinary Literacy in the Content Areas (3)
  - SSE5790 - Inquiry and Instructional Analysis in Social Science Education (3)

Elective Courses
12 Total Credits

- Complete the following:
  - ESE5344 - Managing the Secondary Classroom (3)
  - ESE6036 - Contemporary Issues in Secondary Education (3)
  - SSE6396 - Teaching with Primary Sources in the History Classroom (3)
  - SSE6636 - Contemporary Social Science Education (3)

Internship
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - SSE 6946 - Graduate Internship (6 Credit Hours, taken over two semesters ***) ***The two semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring. Students should ensure that they meet all requirements for Graduate Internship. - Complete EDG 6415 and TSL 5085 before first semester of internship. - Overall graduate GPA must be 3.0 or higher. - Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship. - Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.education.ucf.edu/clinicalexpl/ - Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience
3 Total Credits

- Earn at least 3 credits from the following:
  - ESE6256 - Critical Issues in Secondary Education (1 - 3)

Grand Total Credits: 39
Track Details

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination.
- Students are recommended to have 30 credit hours of social science course work to be prepared to take the subject area exam in Social Science for grades 6-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a $64 equipment each semester that they are enrolled. Part-time students pay $32 per semester.

Independent Learning

The MAT requires a portfolio of both reflective practice/analysis of professional development and demonstration of attainment for all of the Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via by Watermark is required for the portfolio. In addition, an internship is required.

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Teacher Education MAT - Teacher Education MAT, World Languages Education with ESOL Endorsement Track

College
College of Community Innovation and Education

Department
School of Teacher Education

Track Website
https://ccie.ucf.edu/teachered/k-12/world-languages-education/

Track Handbook
Teacher Education MAT
Track Contact Information

Michele Regalla PhD
Associate Professor
Michele.Regalla@ucf.edu
Telephone: 4074823-0074
ED 122A

Is this track available 100% online?

No

Licensure Disclosure

The Teacher Education MAT, World Languages Education Track has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CCIE-Teacher-Ed-MAT.pdf.

Track Description

The Teacher Education MAT, World Languages Education program is an initial teacher preparation program for students seeking certification to teach World Languages in grades K-12, including students previously certified to teach in another field. The new World Languages Education Track in the Teacher Education MAT is currently seeking Florida Department of Education state-approval to offer the degree with multiple languages options, as is already state-approved at the undergraduate level.

The Master of Arts in Teaching is subject to any change in the Florida Administrative Code (State Board of Education Rule 6A-5.066). Students enrolled in this program should remain in close contact with their adviser to keep informed of any program changes implemented to comply with new state requirements.

The Teacher Education MAT, World Languages Education requires a minimum of 39 credit hours beyond the bachelor's degree. The program is a K-12 program for noneducation majors at the undergraduate level or teachers previously certified in another field.

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. In addition, an internship is required.

All teacher education candidates are required to complete Via™ by Watermark requirements before being certified for graduation. Via™ by Watermark access is required for the portfolio. See http://ccie.ucf.edu/explore-via/

Total Credit Hours Required: 39 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students may not switch from an MAT program to an MEd program, or vice versa, without going through the university's application process.

Graduate Application Deadlines

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<th>World Languages Education with ESOL Endorsement</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact
Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
30 Total Credits

- EDG 6415 and TSL 5085 must be taken prior to internship.

Core Courses
12 Total Credits

- Complete the following:
  - EDG6415 - Principles of Instruction and Classroom Management (3)
  - EDF6237 - Principles of Learning and Introduction to Classroom Assessment (3)
  - EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education (3)
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)

Specialization
18 Total Credits

- Complete the following:
  - FLE5345 - Teaching World Languages in K-12 Schools (3)
  - RED5147 - Developmental Reading (3)
  - TSL5525 - ESOL Cultural Diversity (3)
  - TSL6143 - Curriculum and Instruction in Dual Language Programs (3)
  - TSL6250 - Applied Linguistics in ESOL (3)
  - TSL6440 - Assessment Issues in TESOL (3)

Internship
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - FLE 6946 - Graduate Internship (6 Credit Hours taken over two semesters***)
  - The two-semester requirement applies to on-the-job internships and most traditional internships. Traditional internships may be completed in one semester with advisor approval. The two-semester internship must be completed over one academic year. One-semester traditional internships must be completed in spring. Students should ensure that they meet all requirements for Graduate Internship.
  - Complete EDG 6415 and TSL 5085 before first semester of internship.
  - Overall graduate GPA must be 3.0 or higher.
  - Passing scores on the appropriate Subject Area Examination and Professional Education Examination are required prior to admission to the second semester of graduate internship.
  - Students must apply and be approved for graduate internship. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.education.ucf.edu/clinicalexp/.
  - Satisfactory completion of the Graduate Internship requires the student to demonstrate proficiency in all Florida Educator Accomplished Practices at the beginning level in accordance with State Board of Education Rule 6A-5.065.

Culminating Experience
3 Total Credits

- Earn at least 3 credits from the following:
  - ESE6256 - Critical Issues in Secondary Education (1 - 3)

Grand Total Credits: 39
Track Details

Additional Program Requirements

- Complete all key assignments in Via according to program guidelines. This requires demonstration of professional growth, reflection, and proficiency in the Florida Educator Accomplished Practices.
- Pass all required sections of the Florida Teacher Certification Examination. Choose Spanish K-12 or French K-12.
- Students are recommended to have 30 credit hours of language coursework (Spanish or French) to be prepared to take the subject area exam in Spanish or French for grades K-12. If students have difficulty passing the subject area examination, content-based coursework will be recommended. It is important to see an adviser if courses are difficult to schedule in content areas.

Equipment Fee

Students in the Master of Arts in Teacher Education program pay a $64 equipment fee each semester that they are enrolled. Part-time students pay $32 per semester.

Independent Learning

The MAT requires an online portfolio of both reflective practice/analysis of professional development and demonstration of attainment of the beginning level of performance for all Florida Educator Accomplished Practices (FEAPs). Multiple artifacts and reflective analysis are required for each of the accomplished practices. All portfolio entries are critical components of learning since they are the primary means of accessing the professional development of students as reflective practitioners. Via™ by Watermark is required for the portfolio. In addition, an internship is required.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Urban and Regional Planning Graduate Certificate

College
College of Community Innovation and Education

Department
School of Public Administration

Program Website
https://ccie.ucf.edu/public-administration/
Program Contact Information

Chia-Yuan Yu, PhD
Assistant Professor
Chia-Yuan.Yu@ucf.edu
407-823-2604

Jesica Lovelace, MPA
Graduate Advisor
Jesica.Lovelace@ucf.edu
407-823-0170

Edlira Dursun, MNM, MPA
Academic Program Coordinator II
Edlira.Dursun@ucf.edu
DPAC 446B

Is this program available 100% online?
No

Program Description

The Graduate Certificate in Urban and Regional Planning is designed to enhance knowledge, skills, and career development in the field of community, urban and regional planning.

Planning has been identified as one of the key policy issues in central Florida, which is a major growth area in the state.

The Urban and Regional Planning graduate certificate requires 18 credit hours of courses, including 12 credit hours of required courses and 6 credit hours of elective courses.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

All applicants to this certificate program will be required to submit:

- One official transcript meeting the minimum GPA requirement of 2.5, in a sealed envelope, from each college/university attended. Current professional résumé including experience in the field (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant's ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following:
  - Personal background and career aspirations in urban and regional planning.
  - Reason for pursuing graduate study in urban and regional planning, including your future career goals and plans.
  - Specific areas of urban and regional planning that interests you.

These documents must be attached to the application. Applications must be submitted by the established deadline date. Applications received after the established deadline may not be considered. Students are expected to be computer literate and have computer internet access upon entry to the program. Admission to this program is competitive; applicants meeting the minimum admission requirements are not guaranteed admission to this program.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - PAD5336 - Introduction to Urban Planning (3)
  - PAD5337 - Urban Design (3)
  - PAD5338 - Land Use and Planning Law (3)
  - PAD6716 - Information Systems for Public Managers and Planners (3)

Restricted Electives
6 Total Credits

- Complete at least 2 of the following:
  - PAD5356 - Managing Community and Economic Development (3)
  - PAD6316 - Planning Methods (3)
  - PAD6387 - Transportation Policy (3)
  - PAD6397 - Managing Emergencies and Crises (3)
  - PAD6353 - Environmental Planning and Policy (3)
  - PAD6825 - Cross-Sectoral Governance (3)
  - PAD6847 - Planning Healthy Communities (3)

Grand Total Credits: **18**

Program Details

Students must achieve a grade of "B-" (80%) or better in every course. Grades 'C' or lower cannot be used to fulfill certificate requirements. Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Urban and Regional Planning MS

College

College of Community Innovation and Education
Department
School of Public Administration

Program Website
https://ccie.ucf.edu/public-administration/urban-regional-planning/

Program Handbook
Urban and Regional Planning MS Program Handbook

Program Contact Information
Chia-Yuan Yu, PhD
Program Director
Telephone: 407-823-5714
Chia-Yuan.Yu@ucf.edu

Nasrin Lakhani, MNM
Graduate Adviser and Student Support
Nasrin@ucf.edu
Telephone: 407-823-0912

Edlira Dursun, MNM, MPA
Academic Program Coordinator II
Edlira.Dursun@ucf.edu

DPAC 446B

Is this program available 100% online?
No

Program Description
The Master of Science in Urban and Regional Planning program is designed to produce graduates with the analytical skills and managerial knowledge to pursue successful careers in urban, metropolitan, and regional planning and closely related fields.

Students will receive an interdisciplinary, holistic educational experience emphasizing sustainability and socially responsible planning.

The Master of Science in Urban and Regional Planning consists of 42 credit hours. Each student completes a core of nine courses (27 credit hours), restricted elective courses (9 credit hours), and a Capstone project (6 credit hours).

The Master of Science in Urban and Regional Planning (MSURP) program is a face-to-face program. While some courses are offered online, students admitted to the MSURP program are expected to attend face-to-face classes offered weeknights on the downtown campus. The MSURP also incorporates community-based projects into most courses. Group projects are intended to develop leadership abilities while also providing an opportunity to show students are capable of working as part of a team. Group projects promote important intellectual and social skills and help to prepare students for work in a world in which teamwork and collaboration are increasingly the norms.

Courses and credit hours used for undergraduate degrees cannot be applied toward the MSURP degree, except for Senior Scholar students. UCF undergraduate students approved to participate in the Senior Scholar program may, with the permission of the MSURP program director, use up to 9 credit hours of graduate coursework from their bachelor's degree toward the MSURP degree. However, no undergraduate-level courses will be accepted in the MSURP program.

Total Credit Hours Required: 42 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to meeting general UCF graduate application requirements, applicants to this program must provide:

- An official transcript meeting the minimum GPA requirement of 3.0 (on a 4.0 scale), in a sealed envelope, from each college/university attended.
- The GRE is not required for admission to this program.
- Two letters of recommendation evaluating scholarly and professional capacity. Letters from professors from the colleges/universities attended are preferred, but if that is not feasible, letters from current or past supervisors will be accepted. The recommender must address your work ethic and ability to succeed at graduate-level academic work.
- Current professional résumé including experience in the field (paid or voluntary).
- Goal Statement: The goal statement is a key component of the admission review process and serves as an example of the applicant’s ability to express himself or herself in writing. The goal statement must be no longer than two pages double-spaced (500-800 words) and should address the following: Personal background and career aspirations in urban and regional planning, Reason for pursuing graduate study in urban and regional planning, including future career goals and plans. Specific areas of the urban and regional planning of interest to the applicant.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- All International students must meet university minimum TOEFL score requirements regardless of the language in which the undergraduate program was completed.

A limited number of students who do not meet the GPA requirements may be admitted on a provisional basis. These students must demonstrate planning experience and provide a clear statement of education goals.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

The Spring 2022 Application Deadline has been extended until December 1, 2021.

Graduate School Contact

Brandon Ruff
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Core Courses**
27 Total Credits

- Complete the following:
  - PAD5336 - Introduction to Urban Planning (3)
  - PAD5337 - Urban Design (3)
  - PAD5338 - Land Use and Planning Law (3)
  - PAD5356 - Managing Community and Economic Development (3)
  - PAD6316 - Planning Methods (3)
  - PAD6353 - Environmental Planning and Policy (3)
  - PAD6387 - Transportation Policy (3)
  - PAD6716 - Information Systems for Public Managers and Planners (3)
  - PAD5930 - Global Cities (3)

**Capstone or Final Product**
6 Total Credits

- Complete all of the following:
  - The final product will be a studio experience for six credit hours. Students work in teams for the final product in the planning degree program under the supervision of a faculty adviser. Students work closely with community partners in conducting an applied planning project. Part of the capstone experience is a presentation of their final project.
  - Complete the following:
    - IDS6953 - Urban and Regional Planning Capstone I (3)
    - IDS6954 - Urban and Regional Planning Capstone II (3)

**Planning Electives**
9 Total Credits

- Complete at least 3 of the following:
  - PAD6847 - Planning Healthy Communities (3)
  - PAD6920 - Visualization and Presentation Workshop for Urban Planners (3)
  - PAD6397 - Managing Emergencies and Crises (3)
  - PAD6254 - Economics of Land Use Planning and Development (3)
  - PAD6339 - Housing Development and Planning (3)
  - PAD6357 - Urban Resilience (3)
  - PAD6946 - Internship (3)
  - URP6711 - Sustainable Transportation Planning (3)
  - PAD6826 - Urban Policy and Regional Governance (3)

**Grand Total Credits:** 42
Program Details

Curriculum

The Master of Science in Urban and Regional Planning consists of 42 credit hours. Each student completes a core of nine courses (27 credit hours), restricted elective courses (9 credit hours), and a Capstone project (6 credit hours).

The Master of Science in Urban and Regional Planning (MSURP) program is a face-to-face program. While some courses are offered online, students admitted to the MSURP program are expected to attend face-to-face classes offered weeknights on the downtown campus. The MSURP also incorporates community-based projects into most courses. Group projects are intended to develop leadership abilities while also providing an opportunity to show students are capable of working as part of a team. Group projects promote important intellectual and social skills and help to prepare students for work in a world in which teamwork and collaboration are increasingly the norms.

Courses and credit hours used for undergraduate degrees cannot be applied toward the MSURP degree, except for Senior Scholar students. UCF undergraduate students approved to participate in the Senior Scholar program may, with the permission of the MSURP program director, use up to 9 credit hours of graduate coursework from their bachelor’s degree toward the MSURP degree. However, no undergraduate-level courses will be accepted in the MSURP program.

Additional Program Requirements

Students must achieve a grade of "B-" (80%) or higher in every course listed under core requirements and in the Capstone Experience courses.

Students must maintain a program of study and graduate status GPA of 3.0 or higher and can only graduate with a graduate status GPA of 3.0 or higher.

The School of Public Administration incorporates service learning into some courses. Service learning is a teaching method that provides a means for every student to enhance his or her academic program with experiential learning opportunities. Service learning provides an opportunity for students to work with community partners by collecting and compiling data and producing quality products that will be beneficial to both students and organizations.

Students are expected to be computer literate and have computer internet access upon entry to the program.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Tangible projects, such as research scholarly papers, internships, and the Capstone/Final Project also contribute to the self-development of students. The planning study in the Capstone/Final Project will focus on reviewing and analyzing contemporary planning issues in order to help students acquire knowledge and skills pertaining to best practices in a variety of planning subfields. The Capstone/Final Project provides opportunities for independent learning experience.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

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http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

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https://funding.graduate.ucf.edu
College
College of Community Innovation and Education

Department
School of Teacher Education

Program Website
https://ccie.ucf.edu/teachered/k-12/world-languages-education/

Program Contact Information
Donita Grissom PhD
Associate Lecturer
Donita.Grissom@ucf.edu
Telephone: 407-823-5791
ED 122N

Is this program available 100% online?
No

Program Description
The World Languages Education - English for Speakers of Other Languages (ESOL) graduate certificate builds knowledge and skills in teaching and assessing academic subjects and supporting second language acquisition and literacy for teaching English learners in PreK-12 schools.

The graduate certificate is designed for College of Community Innovation and Education students pursuing graduate initial certification degrees in secondary content areas, school leadership, or student support fields. Students who successfully complete this graduate certificate can expect to increase their marketability in educational professions that serve English learners in PreK-12 settings. This graduate certificate is designed to promote student success in PreK-12 schools but does not directly qualify students for teacher certification. Courses used to earn this certificate may not also be used to earn the World Languages Education - Languages Other Than English (LOTE) graduate certificate.

The World Languages Education, English for Speakers of Other Languages (ESOL) graduate certificate builds knowledge and skills in teaching and assessing academic subjects and supporting second language acquisition and literacy for teaching English learners in PreK-12 schools. The graduate certificate is designed for College of Community Innovation and Education students pursuing graduate initial certification degrees in secondary content areas, school leadership, or student support fields. To earn the certificate, students complete four required courses (12 credit hours total).

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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Graduate School Contact

Brandon Ruff  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Required Courses  
12 Total Credits

- Complete all of the following
  - Complete the following:
    - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)  
    - TSL5345 - Methods of ESOL Teaching (3)  
    - TSL5525 - ESOL Cultural Diversity (3)  
  - Complete at least 1 of the following:
    - TSL6379 - Second Language Literacy (3)  
    - TSL6250 - Applied Linguistics in ESOL (3)

Grand Total Credits: 12

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu  
http://finaid.ucf.edu

World Languages Education - Languages Other Than English (LOTE) Graduate Certificate

College  
College of Community Innovation and Education

Department  
School of Teacher Education

Program Website  
https://ccie.ucf.edu/teachered/k-12/world-languages-education/

Program Contact Information  
Michele Regalla PhD  
Associate Professor  
Michele.Regalla@ucf.edu  
Telephone: 4074823-0074  
ED 122A
Is this program available 100% online?

No

Program Description

The World Languages Education - Languages Other Than English (LOTE) graduate certificate builds knowledge and skills in teaching and assessing academic subjects and supporting second language acquisition and literacy for teaching languages other than English. The graduate certificate is well suited for students pursuing a graduate degree in a language other than English or for students with graduate standing who are proficient in a LOTE that they would like to teach.

Students who successfully complete this graduate certificate can expect to increase their marketability in careers that include educational components such as instructing, training and lecturing. This graduate certificate is designed to promote student success in instructional settings, particularly in the PreK-12 school setting, but does not directly qualify students for teacher certification. Courses used to earn this certificate may not also be used to earn the World Languages Education - English for Speakers of Other Languages (ESOL) graduate certificate.

The World Languages Education, Languages Other Than English (LOTE) graduate certificate builds knowledge and skills in teaching and assessing academic subjects and supporting second language acquisition and literacy for teaching languages other than English. The graduate certificate is well suited for students pursuing a graduate degree in a language other than English or for students with graduate standing who are proficient in a LOTE that they would like to teach. To earn the certificate, students complete four required courses (12 credit hours total).

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Application Deadlines Notes

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gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses

12 Total Credits

- Complete all of the following
  - TSL5085 - Teaching Language Minority Students in K-12 Classrooms (3)
  - TSL6250 - Applied Linguistics in ESOL (3)
- Complete all of the following
  - Complete at least 1 of the following:
    - TSL6379 - Second Language Literacy (3)
    - FLE6695 - Professional Development in Foreign Language Education (3)
  - Complete at least 1 of the following:
    - FLE5345 - Teaching World Languages in K-12 Schools (3)
    - TSL5345 - Methods of ESOL Teaching (3)
- Note: Students can take either FLE 5345 or TSL 5345 but not both.

Grand Total Credits: 12

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

College of Engineering and Computer Science

Aerospace Engineering MSAE

College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Program Website

http://www.mae.ucf.edu/

Program Contact Information

Jihua Gou PhD
Professor
jihua.gou@ucf.edu
Telephone: 407-823-5448
ENGR I - 381

Is this program available 100% online?

Yes
Please note: Aerospace Engineering (MSAE) may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-M5.pdf.

The Master of Science in Aerospace Engineering (MSAE) is designed to prepare students for careers as engineers in aerospace. Students must choose from four tracks: Accelerated BS to MSAE, Guidance Control and Dynamics, Space Systems Design and Engineering, and Thermofluid Aerodynamic Systems Design and Engineering. Please scroll to the bottom of this page for further details on these Tracks.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Aerospace Engineering MSAE offers several options to students. Applicants must choose a track in this program. Track(s) may have different requirements.

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Grad Fellowships
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gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Aerospace Engineering MSAE - Aerospace Engineering MSAE, Accelerated BS to MSAE Track

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Track Website
http://www.mae.ucf.edu/

Track Contact Information
Jihua Gou PhD
Professor
jihua.gou@ucf.edu
Telephone: 407-823-5448
ENGR I - 381

Is this track available 100% online?
No

Licensure Disclosure
This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-MS.pdf.

Track Description
The Accelerated BS to MS track in the Aerospace Engineering MSAE program allows highly qualified undergraduate students in Aerospace Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Participation will enable completion of the Bachelor of Science and Master of Science degrees in five instead of six years for students enrolled in full-time course work.

The BSAE is awarded after completion of 128 total undergraduate student credit hours including 71 hours of engineering courses and all other university requirements, and the MSAE is awarded upon completion of the master's program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
This track is available to University of Central Florida undergraduate majors in Aerospace Engineering and Mechanical Engineering only.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated BS to MS program in Aerospace Engineering allows highly qualified University of Central Florida undergraduate majors in Aerospace Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year directly through the College of Engineering and Computer Science. If accepted, student's will complete the University Graduate application when they are ready to enroll as a full-time graduate student. If the student has a degree in the discipline but were not previously part of this accelerated program, then they should apply to either the Space Systems Design and Engineering or Thermofluid Aerodynamic Systems Design and Engineering Track instead. Additional information about this track may be located at: https://grad.cecs.ucf.edu/academic-programs/accelerated-bs-ms-program/.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in Aerospace Engineering or closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Accelerated BS to MSAE</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

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Institution Codes
GRE: 5233
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Degree Requirements

Undergraduate Requirements
0 Total Credits

- Please see the current edition of the Undergraduate Catalog and the College of Engineering website listed above for additional information about academics and accelerated programs.

Required/Track Courses
24 Total Credits

- Complete 1 of the following
  - Up to 12 credit hours of approved 5000- and 6000-level courses of grades “B” (3.0) or better may be counted toward the BS and MS degrees. Additional notes on the Accelerated Undergraduate and Graduate Program in Aerospace Engineering: Students who change degree programs and select this major must adopt the most current catalog. Students must earn at least a “B” (3.0) in each undergraduate and graduate engineering course for them to be counted toward the major. Accelerated Aerospace students must declare their interest in either the Space Systems Design and Engineering Track or the Thermofluid Aerodynamic Systems Design and Engineering Track by completing a Program of Study with their adviser.

  - Complete all of the following
    - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
    - EML5271 - Intermediate Dynamics (3)
    - EML5311 - System Control (3)

  - Complete at least 1 of the following:
    - EML5152 - Intermediate Heat Transfer (3)
    - EML5237 - Intermediate Mechanics of Materials (3)
    - EML5713 - Intermediate Fluid Mechanics (3)

  - Earn at least 12 credits from the following types of courses:
    - Elective Coursework as listed on the Space Systems Design and Engineering Track Catalog Page

Space Systems Design and Engineering Track

- Complete all of the following
  - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
  - EML5152 - Intermediate Heat Transfer (3)
  - EML5713 - Intermediate Fluid Mechanics (3)

- Complete at least 1 of the following:
  - EML5237 - Intermediate Mechanics of Materials (3)
  - EML5271 - Intermediate Dynamics (3)
  - EML5311 - System Control (3)

- Earn at least 12 credits from the following types of courses:
  - Elective Coursework as listed on the Thermofluid Aerodynamic Systems Design and Engineering Track Catalog Page

Thermofluid Aerodynamic Systems Design and Engineering Track

- Complete all of the following
  - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
  - EML5152 - Intermediate Heat Transfer (3)
  - EML5713 - Intermediate Fluid Mechanics (3)

- Complete at least 1 of the following:
  - EML5237 - Intermediate Mechanics of Materials (3)
  - EML5271 - Intermediate Dynamics (3)
  - EML5311 - System Control (3)

- Earn at least 12 credits from the following types of courses:
  - Elective Coursework as listed on the Thermofluid Aerodynamic Systems Design and Engineering Track Catalog Page

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        - EAS 6971 - Thesis
      - Additionally, all students pursuing the thesis option must enroll in the following course: EML 5090 - Mechanical and Aerospace Seminar 0 Credit Hours Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

    - Nonthesis Option
      - Complete all of the following
        - Earn at least 3 credits from the following:
          - EML6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
          - For students who are not on campus and upon prior approval from the graduate coordinator, EML 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EML 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research.

Grand Total Credits: 30
Track Details

Equipment Fee

Students in the Aerospace Engineering MSAE program pay a $90 equipment fee each semester that they are enrolled.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis or EML 6085 - Research Methods in Mechanical and Aerospace Engineering. The nonthesis option independent learning experience is provided by the required course EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, EAS 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EAS 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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https://graduate.ucf.edu/funding/

Aerospace Engineering MSAE - Aerospace Engineering MSAE, Guidance Control and Dynamics Track

College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Track Website

http://www.mae.ucf.edu/

Track Contact Information

Jihua Gou PhD
Professor
jihua.gou@ucf.edu
Telephone: 407-823-5448
ENGR I - 381

Is this track available 100% online?

Yes
UCF Online

Please note: Aerospace Engineering (MSAE) may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-MS.pdf.

Track Description

The Master of Science in Guidance, Control and Dynamics (MSAE) is designed to prepare students for careers as engineers in the aerospace industry. The curriculum is developed with strong emphasis in courses related to guidance control and dynamics with applications in aerospace engineering.

The MSAE is awarded upon completion of a minimum of 30 credit hours, including 9 credit hours of required courses, 15 credit hours of elective courses selected from an approved list of courses, and an additional 6 credit hours in either a thesis or nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

Bachelor’s degree in Aerospace Engineering or closely related discipline. A student with an undergraduate degree outside of the selected departmental discipline may also be required to satisfy an articulation program.

Prerequisites (or equivalent)

- MAP 2302 - Differential Equations
- EML 3034C - Modeling Methods in Mechanical and Aerospace Engineering
- EAS 4134 - High-Speed Aerodynamics
- EAS 4105 - Flight Mechanics
- EAS 4200 - Flight Structures

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in Aerospace Engineering or closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Guidance Control and Dynamics</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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<tbody>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
**Graduate School Contact**

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**Institution Codes**  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

**Required Courses**  
9 Total Credits  
- Complete all of the following  
  - Complete the following:  
    - EML5271 - Intermediate Dynamics (3)  
    - EEL5630 - Digital Control Systems (3)  
  - Complete at least 1 of the following:  
    - EEL5173 - Linear Systems Theory (3)  
    - EML5311 - System Control (3)

**Elective Courses**  
15 Total Credits  
- Complete at least 5 of the following:  
  - EAS6403C - Attitude Determination and Control (3)  
  - EAS6415 - Guidance, Navigation and Control (3)  
  - EML5713 - Intermediate Fluid Mechanics (3)  
  - EML5237 - Intermediate Mechanics of Materials (3)  
  - EEL5432 - Satellite Remote Sensing (3)  
  - EEE5542 - Random Processes I (3)  
  - EAS6507 - Topics of Astrodynamics (3)  
  - EAS5407C - Mechatronic Systems (3)  
  - EAS6405 - Advanced Flight Dynamics (3)  
  - EAS6414 - Estimation of Dynamical Systems in Aerospace Engineering (3)  
  - EAS6722 - Multidisciplinary Optimization Under Uncertainty (3)  
  - EEL5625 - Applied Control Systems (3)  
  - EEL5669 - Introduction to Robotics and Autonomous Vehicles (3)  
  - EEL5690 - Medical Robotics (3)  
  - EEL5820 - Image Processing (3)  
  - EEL6026 - Optimization of Engineering Systems (3)  
  - EEL6616 - Adaptive Control (3)  
  - EEL6619 - Nonlinear Robust Control and Applications (3)  
  - EEL6621 - Nonlinear Control Systems (3)  
  - EEL6662 - Advanced Robotics (3)  
  - EEL6667 - Mobile Robotic Systems (3)  
  - EEL6671 - Modern and Optimal Control Systems (3)  
  - EEL6674 - Optimal Estimation for Control (3)  
  - EEL6675 - Stochastic Control (3)  
  - EEL6683 - Cooperative Control of Networked Autonomous Systems (3)  
  - EE6812 - Introduction to Neural Networks (3)  
  - EEL6875 - Autonomous Agents (3)  
  - EEL6878 - Modeling and Artificial Intelligence (3)  
  - EML6223 - Advanced Vibrational Systems (3)  
  - EML6226 - Analytical Dynamics (3)  
  - EML6227 - Nonlinear Vibration (3)  
  - EML6808 - Analysis and Control of Robot Manipulators (3)

**Thesis/Nonthesis Option**  
6 Total Credits

2021-2022 Graduate Catalog
Complete 1 of the following
Thesis Option
- Complete all of the following
  - Earn at least 6 credits from the following types of courses:
    - EAS 6971 Thesis: The thesis option requires 30 credit hours, at least half of which must be at the 6000 level and will include 6 credit hours of thesis credit. A student pursuing the thesis program may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic. Students must register for the course a minimum of two times during their graduate career in the master’s program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.
    - Additionally, students pursuing the thesis option must enroll in the following course: EML 5090 - Mechanical and Aerospace Seminar 0 Credit Hours
Nonthesis Option
- Complete all of the following
  - Earn at least 3 credits from the following:
    - EML6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
  - The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of course work, at least one-half of which must be at the 6000 level. Students pursuing the nonthesis option are required to take one additional elective and take either EML 6085 - Research Methods in Mechanical and Aerospace Engineering (or XXX 6918 Directed Research, with approval)* as part of their 30-credit-hour course requirement. *For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning. EML 6085 - Research Methods in Mechanical and Aerospace Engineering and XXX 6918 fulfill the independent learning requirement and either course is required for nonthesis students.
    - Earn at least 3 credits from the following types of courses:
      - Additional elective course from suggested list above

Grand Total Credits: 30

Track Details
All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. The program of study must be approved by the department and therefore students should consult with the MMAE Graduate Director for assistance in filling out their program of study.

A student with an undergraduate degree outside of the selected departmental discipline may also be required to satisfy an articulation program. Substitutions to the program of study must meet with the approval of the adviser and the department.

Equipment Fee
Students in the Aerospace Engineering MSAE program pay a $90 equipment fee each semester that they are enrolled.

Independent Learning
The independent learning requirement is met by successful completion of a master’s thesis for the thesis option. The nonthesis option independent learning experience is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

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Aerospace Engineering MSAE - Aerospace Engineering MSAE, Space Systems Design and Engineering Track

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Track Website
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Professor
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ENGR I - 381

Is this track available 100% online?
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UCF Online

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Track Description
The Master of Science in Space Systems Design and Engineering (MSAE) is designed to prepare students for careers as engineers in aerospace. The program includes the fields of controls and dynamics, space environment, instrumentation and communications, structures and materials, thermal analysis, and design.

The MSAE is awarded upon completion of a minimum of 30 credit hours, including 12 credit hours of required courses, 12 credit hours of elective courses selected from an approved list of courses, and an additional 6 credit hours in either a thesis or nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

2021-2022 Graduate Catalog
**Track Prerequisites**

Bachelor's degree in Aerospace Engineering or closely related discipline. A student with an undergraduate degree outside of the selected departmental discipline may also be required to satisfy an articulation program.

**Prerequisites (or equivalent)**

- MAP 2302 - Differential Equations
- EML 3034C - Modeling Methods in Mechanical and Aerospace Engineering
- EAS 4134 - High-Speed Aerodynamics
- EAS 4105 - Flight Mechanics
- EAS 4200 - Flight Structures

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in Aerospace Engineering or closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

**Graduate Application Deadlines**

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<td>Jan 15</td>
<td>Jul 1</td>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Jaylin Hudgen  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

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2021-2022 Graduate Catalog
**Degree Requirements**

**Required Courses**
12 Total Credits

- Complete all of the following
  - Complete the following:
    - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
    - EML5271 - Intermediate Dynamics (3)
    - EML5311 - System Control (3)
  - Complete at least 1 of the following:
    - EML5152 - Intermediate Heat Transfer (3)
    - EML5237 - Intermediate Mechanics of Materials (3)
    - EML5713 - Intermediate Fluid Mechanics (3)

**Elective Courses**
12 Total Credits

- Complete at least 4 of the following:
  - EAS6403C - Attitude Determination and Control (3)
  - EAS6415 - Guidance, Navigation and Control (3)
  - EEL6616 - Adaptive Control (3)
  - EEL6621 - Nonlinear Control Systems (3)
  - EML5152 - Intermediate Heat Transfer (3)
  - EML5713 - Intermediate Fluid Mechanics (3)
  - EML6211 - Continuum Mechanics (3)
  - EML6223 - Advanced Vibrational Systems (3)
  - EML5237 - Intermediate Mechanics of Materials (3)
  - EML6155 - Convection Heat Transfer (3)
  - EML6157 - Radiation Heat Transfer (3)
  - EAS6808 - Space Environment and Payload Instrumentation (3)
  - EEL5432 - Satellite Remote Sensing (3)
  - EEE5542 - Random Processes l (3)

**Thesis/Nonthesis Option**
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        - EAS 6971 Thesis The thesis option requires 30 credit hours, at least half of which must be at the 6000 level and will include 6 credit hours of thesis credit. A student pursuing the thesis program may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic. Students must register for the course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.
        - Additionally, students pursuing the thesis option must enroll in the following course: EML 5090 - Mechanical and Aerospace Seminar 0 Credit Hours
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 3 credits from the following:
        - EML6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
      - The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of course work, at least one-half of which must be at the 6000 level. Students pursuing the nonthesis option are required to take one additional elective and take either EML 6085 - Research Methods in Mechanical and Aerospace Engineering (or XXX 6918 Directed Research, with approval)* as part of their 30-credit-hour course requirement. *For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student’s independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning. EML 6085 - Research Methods in Mechanical and Aerospace Engineering and XXX 6918 fulfill the independent learning requirement and either course is required for nonthesis students.
      - Earn at least 3 credits from the following types of courses:
        - Additional elective course from suggested list above

**Grand Total Credits:** 30

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2021-2022 Graduate Catalog
Track Details

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. The program of study must be approved by the department and therefore students should consult with the MMAE Graduate Director for assistance in filling out their program of study.

Equipment Fee

Students in the Aerospace Engineering MSAE program pay a $90 equipment fee each semester that they are enrolled.

Independent Learning

The independent learning requirement is met by successful completion of a master’s thesis for the thesis option. The nonthesis option independent learning experience is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Aerospace Engineering MSAE - Aerospace Engineering MSAE, Thermofluid Aerodynamic Systems Design and Engineering Track

College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Track Website

http://www.mae.ucf.edu/

Track Contact Information

Jihua Gou PhD
Professor
jihua.gou@ucf.edu
Telephone: 407-823-5448
ENGR I - 381

Is this track available 100% online?

Yes
**UCF Online**

**Please note:** Aerospace Engineering (MSAE) may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit [http://global.ucf.edu/](http://global.ucf.edu/). If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

**Licensure Disclosure**

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit [https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-MS.pdf](https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-MS.pdf).

**Track Description**

The Thermofluid Aerodynamics Systems Design and Engineering track in the Aerospace Engineering MSAE program is designed to prepare students for careers as engineers in aerospace. The program includes the fields of controls and dynamics, aerodynamics, propulsion, thermal analysis, and design.

The MSAE is awarded upon completion of a minimum of 30 credit hours, including 12 credit hours of required courses, 12 credit hours of elective courses selected from an approved list of courses, and an additional 6 credit hours in either a thesis or nonthesis option.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

Bachelor’s degree in Aerospace Engineering or closely related discipline. A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program.

**Prerequisites (or equivalent)**

- MAP 2302 - Differential Equations
- EML 3034C - Modeling Methods in Mechanical and Aerospace Engineering
- EAS 4134 - High-Speed Aerodynamics
- EAS 4105 - Flight Mechanics
- EAS 4200 - Flight Structures

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor’s degree in Aerospace Engineering or closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

**Graduate Application Deadlines**

<table>
<thead>
<tr>
<th>Thermofluid Aerodynamic Systems Design and Engineering</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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</tr>
</thead>
<tbody>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
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Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Required Courses**

12 Total Credits

- Complete all of the following
  - Complete the following:
    - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
    - EML5152 - Intermediate Heat Transfer (3)
    - EML5713 - Intermediate Fluid Mechanics (3)
  - Complete at least 1 of the following:
    - EML5237 - Intermediate Mechanics of Materials (3)
    - EML5237 - Intermediate Mechanics of Materials (3)
    - EML5311 - System Control (3)

**Elective Courses**

12 Total Credits

- Complete all of the following
  - All students, both thesis and nonthesis, must complete at least 12 hours of electives from the list below after conferring with their adviser.
  - Complete at least 4 of the following:
    - EAS5123 - Intermediate Aerodynamics (3)
    - EAS6185 - Turbulent Flow (3)
    - EAS5315 - Rocket Propulsion (3)
    - EML5713 - Intermediate Fluid Mechanics (3)
    - EML6131 - Combustion Phenomena (3)
    - EML6725 - Computational Fluid Dynamics and Heat Transfer I (3)
    - EAS5302 - Direct Energy Conversion (3)
    - EML6726 - Computational Fluid Dynamics and Heat Transfer II (3)
    - EML6154 - Conduction Heat Transfer (3)
    - EML6157 - Radiation Heat Transfer (3)
    - EML6211 - Continuum Mechanics (3)
    - EML5237 - Intermediate Mechanics of Materials (3)
    - EML5532C - Computer-Aided Design for Manufacture (3)
    - EML5546 - Engineering Design with Composite Materials (3)
    - EML6547 - Engineering Fracture Mechanics in Design (3)
  - Other courses which may be taken: EAS 6807C - Aerospace Measurements Instrumentation 3 Credit Hours EML 6124 - Two-Phase Flow 3 Credit Hours

**Thesis/Nonthesis Option**

6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        - EAS 6971 - Thesis The thesis option requires 6 credit hours of thesis in addition to the required and elective courses listed above. A student pursuing the thesis program may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic. Students must register for the seminar course a minimum of two times during their graduate career in the master’s program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements
        - Additionally, all students pursuing the thesis option must enroll in the following course: EML 5090 - Mechanical and Aerospace Seminar 0 Credit Hours
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 3 credits from the following:
        - EML6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
      - The nonthesis option is primarily designed to meet the needs of part-time students and requires one additional elective and EML 6085 - Research Methods in Mechanical and Aerospace Engineering (or XXX 6918 Directed Research, with approval)* as part of their 30-credit-hour course requirement. * For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research. EML 6085 - Research Methods in Mechanical and Aerospace Engineering (or XXX 6918) fulfills the independent learning requirement for nonthesis students.
      - Earn at least 3 credits from the following types of courses:
        - Additional elective course from suggested list above

Grand Total Credits: 30

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2021-2022 Graduate Catalog
Track Details

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. The program of study must be approved by the department and therefore students should consult with the MMAE Graduate Director for assistance in filling out their program of study. Both thesis and nonthesis options require 30 credit hours of courses and at least half of the credit hours in the program of study must be at the 6000 level. Substitutions to the program of study must meet with the approval of the adviser and the department.

Equipment Fee

Students in the Aerospace Engineering MSAE program pay a $90 equipment fee each semester that they are enrolled.

Independent Learning

The independent learning requirement is met by successful completion of a master’s thesis for the thesis option. The nonthesis option independent learning experience is provided by the required course EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

Financial Information

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Aerospace Engineering PhD

College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Program Website

http://www.mae.ucf.edu

Program Contact Information

Jihua Gou PhD
Professor
jihua.gou@ucf.edu
Telephone: 407-823-5448
ENGR I - 381

Is this program available 100% online?

No
**Licensure Disclosure**

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit [https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-PhD.pdf](https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Aerospace-Engineering-PhD.pdf).

**Program Description**

The Aerospace Engineering PhD program offers students the opportunity, through both coursework and research, to meet the highest standards of academic achievement in the core areas: Aerodynamics, Aerospace Systems Design, Astrodynamics and Space Applications, Dynamics and Control, Propulsion, Structures and Materials.

The Doctor of Philosophy degree in Aerospace Engineering is intended for students who have earned an MS or BS degree in Aerospace Engineering, Mechanical Engineering or a closely related field of Engineering.

The Aerospace Engineering PhD program requires a minimum of 72 credit hours beyond a bachelor's degree. This program requires 15 Dissertation (EAS 7980) credit hours minimum and may include up to a total of 12 credit hours combined Directed (EAS 6918) or Doctoral Research (EAS 7919) and/or Independent Study (EAS 6908) with an approved Program of Study. At least 45 hours of the Program of Study must consist of formal coursework exclusive of Directed Research (EAS 6918), Doctoral Research (EAS 7919) and Independent Study (EAS 6908).

Students entering the program with a master's degree are required to complete 42 credit hours minimum, of which 15 credit hours must be formal coursework. The remaining 12 hours can be chosen by the student in consultation with the adviser and the dissertation committee and with the approval of the graduate program coordinator. These credit hours may include doctoral directed research hours or doctoral dissertation hours.

**Total Credit Hours Required: 72 Credit hours minimum beyond the bachelor's degree. 42 Credit hours minimum beyond the master's degree.**

**Program Prerequisites**

Bachelor's or Master's degree in Aerospace or Mechanical Engineering or closely related discipline.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's or Master's degree in Aerospace or Mechanical Engineering or closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the graduate program director for further information.

**Graduate Application Deadlines**

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<th>Aerospace Engineering PhD</th>
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Degree Requirements

Seminar
0 Total Credits
- Earn at least 0 credits from the following types of courses:
  EML 5090 - Mechanical and Aerospace Seminar The MAE Graduate Seminar is a zero credit hour (S/U) course that is offered each fall and spring academic semesters. Prior to graduation, all MAE graduate students who are pursuing PhD dissertation required to register, participate, and receive a satisfactory (S) for four semesters of MAE Graduate seminar, with at least two of these taken prior to candidacy.

Elective Courses
57 Total Credits
- Earn at least 57 credits from the following:
  - EAS5123 - Intermediate Aerodynamics (3)
  - EAS5211 - Aeroelasticity (3)
  - EAS5302 - Direct Energy Conversion (3)
  - EAS5315 - Rocket Propulsion (3)
  - EAS5407C - Mechatronic Systems (3)
  - EAS5535 - Engineering Design for Aerospace Vehicles (3)
  - EAS6138 - Advanced Gas Dynamics (3)
  - EAS6185 - Turbulent Flow (3)
  - EAS6222 - Non-Destructive Evaluation of Aero-Structures (3)
  - EAS6250 - Structural and Dynamic Stability (3)
  - EAS6403C - Attitude Determination and Control (3)
  - EAS6405 - Advanced Flight Dynamics (3)
  - EAS6414 - Estimation of Dynamicaly Systems in Aerospace Engineering (3)
  - EAS6415 - Guidance, Navigation and Control (3)
  - EAS6507 - Topics of Astrodynamics (3)
  - EAS6722 - Multidisciplinary Optimization Under Uncertainty (3)
  - EAS6807C - Aerospace Measurements Instrumentation (3 - 99)
  - EAS6808 - Space Environment and Payload Instrumentation (3)
  - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
  - EML5066 - Computational Methods in Mechanical and Aerospace Engineering (3)
  - EML5105 - Gas Kinetics and Statistical Thermodynamics (3)
  - EML5152 - Intermediate Heat Transfer (3)
  - EML5237 - Intermediate Mechanics of Materials (3)
  - EML5271 - Intermediate Dynamics (3)
  - EML5311 - System Control (3)
  - EML5402 - Turbomachinery (3)
  - EML5456 - Turbines for Sustainable Power (3)
  - EML5545 - Smart and Adaptive Structures (3)
  - EML6572 - Probabilistic Methods in Mechanical Design (3)
  - EML5713 - Intermediate Fluid Mechanics (3)
  - EML6067 - Finite Elements in Mechanical, Materials, and Aerospace Engineering I (3)
  - EML6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II (3)
  - EML6104 - Classical Thermodynamics (3)
  - EML6131 - Combustion Phenomena (3)
  - EML6154 - Conduction Heat Transfer (3)
  - EML6155 - Convection Heat Transfer (3)
  - EML6157 - Radiation Heat Transfer (3)
  - EML6211 - Continuum Mechanics (3)
  - EML6223 - Advanced Vibrational Systems (3)
Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  EAS/EML 7980 Doctoral Dissertation

Examinations
0 Total Credits

- In addition to the Qualifying Examination discussed above, the student must pass a Candidacy Examination and a Dissertation Defense Examination. The Candidacy Examination is taken near the end of the coursework and consists of a written and oral presentation of a research proposal. The MAE Department typically requires a PhD student to submit his/her Candidacy Exam in the academic semester immediately following his/her successful passing of the PhD Qualifying Exam. The Dissertation Defense Examination is an oral examination taken in defense of the written dissertation. The College of Engineering and Computer Science requires that all Dissertation Defense Examination announcements are approved by the student's advisor and posted on the College's website and on the Events Calendar of the College of Graduate Studies website at least two weeks prior to the defense date.

Dissertation Committee
0 Total Credits

- The Doctoral Advisory Committee must consist of a minim of four members: two must be graduate faculty members from the MAE Department and one must be at large from outside the MAE Department and will serve as the external committee member. The committee Chair must be a member of the graduate faculty approved to direct dissertation. Join faculty members may serve as members from within the MAE Department as well as committee Chair. Adjunct faculty and off-campus experts, if approved graduate faculty scholars, may serve as the external person in the committee. The UCF College of Graduate Studies reserves the right to review appointments to advisory committees, place a representative on any advisory committee or appoint a co-adviser. All committee members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the Doctoral Advisory Committee.

Admission to Candidacy
0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours (enrollment in dissertation hours begins the semester following the completion of these requirements). Evidence of meeting these requirements must be received by the College of Graduate Studies by the day before the first day of classes for the semester in which a student wishes to enroll in dissertation hours. Completion of all coursework, except for dissertation hours. Successful completion of the Candidacy Examination. Successful defense of the written dissertation proposal. Formation of the Doctoral Advisory Committee, consisting of approved Graduate Faculty and Graduate Faculty Scholars. Submission of an approved Program of Study.

Grand Total Credits: 72

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gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Applied Operations Research Graduate Certificate

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Program Website
http://iems.ucf.edu/

Program Contact Information
Mansooreh Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Is this program available 100% online?
Yes

UCF Online

Please note: Applied Operations Research Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

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UCF is not authorized to provide online courses or instruction to students in some states. Refer toState Restrictions for current information.

Program Description

This program has suspended admissions effective Fall 2020 including online.


The Graduate Certificate in Applied Operations Research is designed to prepare individuals with an overview of Operations Research (OR) tools, develop competence in modeling programs and provide practice and hands-on experience. OR models and solution techniques provide a powerful arsenal for solving complex resource allocation and management problems. OR has been used to solve many of the scheduling, distribution, staffing and design problems in the industry. As more powerful desktop computers and software become available, the potential to apply OR models and methods to such problems will grow.

Program Prerequisites

Admission is open to those with a bachelor's degree in industrial engineering or a closely related discipline from an accredited institution recognized by UCF.
Application Requirements

Admission is open to those with a bachelor's degree in industrial engineering or a closely related discipline from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc only.

Applications are accepted for the fall and spring terms only.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete the following:
  - ESI5219 - Engineering Statistics (3)
  - ESI5306 - Operations Research (3)
  - ESI5531 - Discrete Systems Simulation (3)

Elective Course
3 Total Credits

- Complete at least 1 of the following:
  - ESI6336 - Queueing Systems (3)
  - ESI6358 - Decision Analysis (3)
  - ESI6418 - Linear Programming and Extensions (3)

Grand Total Credits: 12

Biomedical Engineering MSBME

College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Program Website

http://www.mae.ucf.edu/
Program Contact Information

Dr. Alain Kassab
Professor
Alain.Kassab@ucf.edu
Telephone: (407) 823-5448
ENGR I, Room 381

Is this program available 100% online?
No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Biomedical-Engineering-MS.pdf.

Program Description

The Master of Science degree in Biomedical Engineering is designed to train graduates with professional skills enabling them to gain employment in the biomedical engineering industry or to enter competitive Biomedical Engineering PhD research programs. It also offers the option to UCF College of Medicine students to enrich education and professional careers by pursuing a tailored MSBME/MD program.

Graduates will have a command of the application of engineering principles to biological and health systems. They will gain skills in modern biomedical engineering tools, understanding of relevant physiology and biology, knowledge of contemporary topics in medical technology, and ability to engage in advanced engineering studies including elements of research, analysis, design and experimentation.

Career opportunities include research, design, analysis, testing and product development in the biomedical and rehabilitation industries, in clinical engineering, and in biomedical engineering.

The MSBME degree offers the following gateways into the program:

- MSBME for students with formal training in engineering or biomedical engineering who have earned a BS degree and are seeking postbaccalaureate education and training.
- MSBME along-the-way to engineering students who are admitted into the PhD program in MAE and engaged in BME research.
- MSBME to students in the BS-to-MS track.
- MSBME to recent BS graduates potentially interested in pursuing PhD research with a preference for admission to the UCF doctoral graduate program upon completion.
- A combined MD/MSBME to UCF College of Medicine MD students with an engineering background and interest who can pursue the degree with one additional year sandwiched between the end of the second and beginning of the third year of medical school. This program is aimed at MD students who wish to expand on their years one and two College of Medicine FIRE (Focused Individualized Research Experience) project into an MS thesis.

The program offers thesis and nonthesis options:

- Accelerated BS to MS - Thesis and Nonthesis options
- Biofluids Track - Thesis and Nonthesis options
- Biomechanics Track - Thesis and Nonthesis options
- MD/MSBME Track - Thesis only

Please scroll to the bottom of this page for further details on these Tracks.

The MSBME requires completion of 30 hours at the graduate level (a combination of 5000 and 6000 level classes) and will be offered with two options: (1) thesis (30 credit hours): 24 credit hours of coursework plus 6 credit hours of thesis with at least 15 credit hours at the 6000 level. (2) nonthesis options (30 credit hours): 30 credit hours of coursework with at least 15 credit hours at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.
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https://graduate.ucf.edu/funding/

Biomedical Engineering MSBME - Biomedical Engineering MSBME, Accelerated BS to MSBME Track

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Track Website
http://www.mae.ucf.edu/

Track Contact Information
Dr. Alain Kassab
Professor
Alain.Kassab@ucf.edu
Telephone: (407) 823-5448
ENGR I, Room 381

2021-2022 Graduate Catalog
Is this track available 100% online?

No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Biomedical-Engineering-MS.pdf.

Track Description

The Accelerated Undergraduate/Graduate program in Biomedical Engineering allows highly qualified undergraduate majors in Mechanical Engineering and Aerospace Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Participation will enable completion of the Bachelor of Science and Master of Science degrees in five instead of six years for students enrolled in full-time course work.

The BSME or BSAE is awarded after completing all university requirements, including 128 total credit hours and 71 credit hours of engineering courses. The MSBME is awarded upon completion of the master's program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

This track is available to University of Central Florida undergraduate majors in Mechanical or Aerospace Engineering only.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated BS to MS program in Biomedical Engineering allows highly qualified University of Central Florida undergraduate majors in Mechanical or Aerospace Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but was not previously part of this accelerated program, then they should apply to either the Biofluids Track or Biomechanics Track. Additional information about this track may be located at: https://grad.cecs.ucf.edu/academic-programs/accelerated-bs-ms-program/.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Résumé.
- A written statement of experience and research, areas of interest, and future career goals.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Applicants should contact the MMAE graduate program director for more information.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
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Degree Requirements

Undergraduate Requirements
0 Total Credits

- Please see the current edition of the Undergraduate Catalog for additional information about this program.

Required/Track Courses
21 Total Credits

- Complete 1 of the following
  - Up to 12 credit hours of approved graduate level courses of grades "B" (3.0) or better may be counted toward the BS and MS degrees. Additional notes on the Accelerated Undergraduate and Graduate Program in Mechanical Engineering are as follows: Students who change degree programs and select this major must adopt the most current catalog. Students must earn at least a "B" (3.0) in each undergraduate and graduate engineering course for them to be counted toward the major. Qualified courses that may be selected for the Accelerated BS to MS are as follows based on track:

  Biofluids Track
  - Complete all of the following
    - BME5216C - Mechanics of Biostructures I (3)
    - BME5217C - Mechanics of Biostructures II (3)
    - BME6500C - Bioinstrumentation (3)
    - BME6935 - Topics in Biomedical Engineering (3)
    - EML6211 - Continuum Mechanics (3)
    - BME5267 - Biofluid Mechanics (3)
    - BME6268C - Applied and Computational Biofluids (3)

  For the Biofluids Track, qualified courses that may be selected for the Accelerated BS to MS are: EML 6211 - Continuum Mechanics 3 Credit Hours BME 5216C - Mechanics of Biostructures I 3 Credit Hours BME 5217C - Mechanics of Biostructures II 3 Credit Hours BME 5267 - Biofluid Mechanics 3 Credit Hours BME 6268C - Applied and Computational Biofluids 3 Credit Hours Or a technical elective approved by the graduate program director

  Biomechanics Track
  - Complete all of the following
    - BME5216C - Mechanics of Biostructures I (3)
    - BME5217C - Mechanics of Biostructures II (3)
    - BME6500C - Bioinstrumentation (3)
    - BME6935 - Topics in Biomedical Engineering (3)
    - EML6211 - Continuum Mechanics (3)
    - BME6215 - Advanced Biomechanics (3)
    - EML6067 - Finite Elements in Mechanical, Materials, and Aerospace Engineering I (3)

  For the Biomechanics Track, qualified courses that may be selected for the Accelerated BS to MS are: EML 6211 - Continuum Mechanics 3 Credit Hours BME 5216C - Mechanics of Biostructures I 3 Credit Hours BME 5217C - Mechanics of Biostructures II 3 Credit Hours BME 6500C - Bioinstrumentation 3 Credit Hours BME 6215 - Advanced Biomechanics 3 Credit Hours Or a technical elective approved by the graduate program director

Representative Electives
3 Total Credits

- Complete at least 1 of the following:
  - BME5572 - Biomedical Nanotechnology (3)
  - BSC5418 - Tissue Engineering (3)
• EEE5265 - Biomedical Effects and Applications of Electromagnetic Energy (3)
• EEL5272 - Biomedical Sensors (3)
• EEL5690 - Medical Robotics (3)
• EMA5060 - Polymer Science and Engineering (3)
• EMA5584 - Biomaterials (3)
• EMA5588 - Biocompatibility of Materials (3)
• EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
• EML5066 - Computational Methods in Mechanical and Aerospace Engineering (3)
• EML5237 - Intermediate Mechanics of Materials (3)
• EML5291 - MEMS Materials (3)
• EML5546 - Engineering Design with Composite Materials (3)

Thesis/Nonthesis Option
6 Total Credits

• Complete 1 of the following
  Thesis Option

  • Complete all of the following
    • Earn at least 6 credits from the following:
      • BME6971 - Thesis (99)
    • Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the student's program of study and the proposed thesis topic. The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website (www.cecs.ucf.edu) and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date. Additionally, all students pursuing the thesis option must enroll in the following course: EML 5936 - Mechanical and Aerospace Seminar 0 Credit Hours Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

Nonthesis Option
• Earn at least 6 credits from the following types of courses:
  Additional elective coursework as listed in Representative Elective section above

Grand Total Credits: 30

Track Details

Up to 12 credit hours of approved graduate level courses of grades "B" (3.0) or better may be counted toward the BS and MS degrees. Additional notes on the Accelerated Undergraduate and Graduate Program in Mechanical Engineering are as follows:

• Students who change degree programs and select this major must adopt the most current catalog.
• Students must earn at least a “B” (3.0) in each undergraduate and graduate engineering course for them to be counted toward the major.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis for the thesis option. For nonthesis students, the independent learning experience is provided by BME 6935 - Topics in Biomedical Engineering, one of the required courses.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Biomedical Engineering MSBME - Biomedical Engineering MSBME, Biofluids Track

College
College of Engineering and Computer Science

Department
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Track Website
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ENGR I, Room 381

Is this track available 100% online?
No

Licensure Disclosure
This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Biomedical-Engineering-MS.pdf.

Track Description
The Biofluids track in the Master of Science degree in Biomedical Engineering provides graduates with professional skills enabling them to gain employment in the biomedical engineering industry or to enter competitive Biomedical Engineering PhD research programs. Career opportunities include research, design, analysis, testing and product development in the biomedical and rehabilitation industries, in clinical engineering, and in biomedical engineering.

Current research focuses on translational research in multiscale computational fluid dynamics for cardiovascular treatment planning, lung cancer treatment planning, upper airways fluid mechanics, bioacoustics for patient monitoring and bedside diagnosis.

The Master of Science in Biomedical Engineering requires 30 credit hours at the graduate level (a combination of 5000 and 6000 level courses) and offers both thesis and nonthesis options.

Thesis students take 15 credit hours of required courses, 6 credit hours of Biofluids courses, 3 credit hours of an approved elective, and 6 credit hours of thesis.

The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of coursework. Nonthesis students take 15 credit hours of required courses, 6 credit hours of Biofluids courses, and 9 credit hours of approved electives.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
A bachelor's degree in Biomedical, Mechanical or Aerospace Engineering, or a closely related discipline.

Prerequisites for non-engineering students applying to the program
* Or equivalent (see graduate adviser)
  - Calculus with Analytic Geometry I (MAC 2311C), Calculus with Analytic Geometry II (MAC 2312), Calculus with Analytic Geometry (MAC 2313), Ordinary Differential Equations (MAP 2302)
  - Engineering Analysis - Statics (EGN 3310), Engineering Analysis - Dynamics (EGN 3321), and Solid Mechanics (EGM 3601)
  - Thermodynamics (EGN 3343)*
  - Fluid Mechanics I (EML 4702) and Fluid Mechanics II (EML 4703)
  - Heat Transfer (EML 4142)
  - Modeling Methods in Mechanical and Aerospace Engineering (EML 3034C)*
  - Mechanical Engineering Measurements (EML 3303C)*

* Or equivalent (see graduate adviser)
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biomedical, Mechanical or Aerospace Engineering, or a closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Graduate Application Deadlines

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Degree Requirements

Required Courses
15 Total Credits

- Complete the following:
  - BME5216C - Mechanics of Biostructures I (3)
  - BME5217C - Mechanics of Biostructures II (3)
  - BME6500C - Bioinstrumentation (3)
  - BME6935 - Topics in Biomedical Engineering (3)
  - EML6211 - Continuum Mechanics (3)

Biofluids Courses
6 Total Credits

- Complete the following:
  - BME5267 - Biofluid Mechanics (3)
  - BME6268C - Applied and Computational Biofluids (3)

Representative Electives
3 Total Credits

- Complete at least 1 of the following:
  - BME5572 - Biomedical Nanotechnology (3)
  - BSC5418 - Tissue Engineering (3)
  - EEE5265 - Biomedical Effects and Applications of Electromagnetic Energy (3)
  - EEL5272 - Biomedical Sensors (3)
  - EEL5690 - Medical Robotics (3)
  - EMA5060 - Polymer Science and Engineering (3)
  - EMA5584 - Biomaterials (3)
  - EMA5588 - Biocompatibility of Materials (3)
  - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
  - EML5066 - Computational Methods in Mechanical and Aerospace Engineering (3)
  - EML5237 - Intermediate Mechanics of Materials (3)
  - EML5291 - MEMS Materials (3)
  - EML5546 - Engineering Design with Composite Materials (3)
  - EML6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II (3)
  - EML6299 - Advanced Topics on Miniaturization (3)
  - ESI5219 - Engineering Statistics (3)
  - ESI647 - Experimental Design and Taguchi Methods (3)
  - ESI6609 - Industrial Engineering Analytics for Healthcare (3)
  - IDS5127 - Foundation of Bio-Imaging Science (3)
  - IDS6252 - Biomedical Nanotechnology (3)
  - IDS6253 - Bioanalytical Technology (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following:
        - BME6971 - Thesis (99)
      - Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the student's program of study and the proposed thesis topic. The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website (www.cecs.ucf.edu) and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date. Additionally, all students pursuing the thesis option must enroll in the following course: EML 5090 - Mechanical and Aerospace Seminar 0 Credit Hours Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.
  - Nonthesis Option
    - Earn at least 6 credits from the following types of courses:
      - Additional elective coursework as listed in Representative Elective section above

Grand Total Credits: 30
Track Details

All students must take at least 15 credit hours at the 6000 level. At least 24 credit hours of the program of study must be course work, exclusive of research and thesis hours.

All students must identify an adviser and file an official program of study prior to the completion of 9 credit hours of study. Students should consult with the MAE Graduate Program Director for assistance in filling out their program of study. The program of study must be approved by the department. Substitutions to the program of study must be approved by the student's faculty adviser and department. More information is available on the MAE departmental website (http://www.mae.ucf.edu/).

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis for the thesis option. For nonthesis students, the independent learning experience is provided by BME 6935 - Topics in Biomedical Engineering, one of the required courses.

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Biomedical Engineering MSBME - Biomedical Engineering MSBME, Biomechanics Track

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College of Engineering and Computer Science

Department

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Track Website

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Track Contact Information

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**Track Description**

The Biomechanics track in the Master of Science degree in Biomedical Engineering provides graduates with professional skills enabling them to gain employment in the biomedical engineering industry or to enter competitive Biomedical Engineering PhD research programs. Career opportunities include research, design, analysis, testing and product development in the biomedical and rehabilitation industries, in clinical engineering, and in biomedical engineering.

The current research focus is in biomechanics, developmental dysplasia of the hip, cellular mechanics and force-induced biochemical responses, image guided surgery, surgical robotics navigation and tracking, soft robotics, and biomechanics of movement rehabilitation and neural control of movement.

The Master of Science in Biomedical Engineering requires 30 credit hours at the graduate level (a combination of 5000 and 6000 level courses) and offers both thesis and nonthesis options.

Thesis students take 15 credit hours of required courses, 6 credit hours of Biomechanics courses, 3 credit hours of an approved elective, and 6 credit hours of thesis.

The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of coursework. Nonthesis students take 15 credit hours of required courses, 6 credit hours of Biomechanics courses, and 9 credit hours of approved electives.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

A bachelor's degree in Biomedical, Mechanical or Aerospace Engineering, or a closely related discipline. A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program.

**Prerequisites for non-engineering students applying to the program**

- Calculus with Analytic Geometry I (MAC 2311C), Calculus with Analytic Geometry II (MAC 2312), Calculus with Analytic Geometry (MAC 2313), Ordinary Differential Equations (MAP 2302)
- Engineering Analysis - Statics (EGN 3310), Engineering Analysis - Dynamics (EGN 3321), and Solid Mechanics (EGM 3601)
- Thermodynamics (EGN 3343)*
- Design and Analysis of Machine Components (EML 3500)
- Introduction to Vibrations and Controls (EML 4225)
- Modeling Methods in Mechanical and Aerospace Engineering (EML 3034C)*
- Mechanical Engineering Measurements (EML 3303C)*

* Or equivalent (see graduate adviser)

**Application Requirements**

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In addition to the general UCF graduate application requirements, applicants to this program must provide:

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- A bachelor's degree in Biomedical, Mechanical or Aerospace Engineering, or a closely related discipline.
- Résumé.
- The GRE is not required for admission to this program.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
15 Total Credits

- Complete the following:
  - BME5216C - Mechanics of Biostructures I (3)
  - BME5217C - Mechanics of Biostructures II (3)
  - BME6500C - Bioinstrumentation (3)
  - BME6935 - Topics in Biomedical Engineering (3)
  - EML6211 - Continuum Mechanics (3)

Biomechanics Courses
6 Total Credits

- Complete the following:
  - BME6215 - Advanced Biomechanics (3)
  - EML6067 - Finite Elements in Mechanical, Materials, and Aerospace Engineering I (3)

Representative Electives
3 Total Credits

- Complete at least 1 of the following:
  - BME5572 - Biomedical Nanotechnology (3)
  - BSC5418 - Tissue Engineering (3)
  - EEE5265 - Biomedical Effects and Applications of Electromagnetic Energy (3)
  - EEL5272 - Biomedical Sensors (3)
  - EEL5690 - Medical Robotics (3)
  - EMA5060 - Polymer Science and Engineering (3)
  - EMA584 - Biomaterials (3)
  - EMA588 - Biocompatibility of Materials (3)
  - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
  - EML5066 - Computational Methods in Mechanical and Aerospace Engineering (3)
  - EML5237 - Intermediate Mechanics of Materials (3)
  - EML5291 - MEMS Materials (3)
  - EML5546 - Engineering Design with Composite Materials (3)
  - EML6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II (3)
  - EML6299 - Advanced Topics on Miniaturization (3)
  - ES15219 - Engineering Statistics (3)
  - ES16247 - Experimental Design and Taguchi Methods (3)
  - ES16609 - Industrial Engineering Analytics for Healthcare (3)
  - IDS5127 - Foundation of Bio-Imaging Science (3)
  - IDS6252 - Biomedical Nanotechnology (3)
  - IDS6253 - Bioanalytical Technology (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
  - Complete all of the following
    - Earn at least 6 credits from the following:
      - BME6971 - Thesis (99)
      - Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the student's program of study and the proposed thesis topic. The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website (www.cecs.ucf.edu) and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date. Additionally, all students pursuing the thesis option must enroll in the following course: EML 5090 - Mechanical and Aerospace Seminar 0 Credit Hours Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.
  - Nonthesis Option
  - Earn at least 6 credits from the following types of courses:
    Additional elective coursework as listed in Representative Elective section above

Grand Total Credits: 30
**Track Details**

All students must take at least 15 credit hours at the 6000 level. At least 24 credit hours of the program of study must be course work, exclusive of research and thesis hours.

All students must identify an adviser and file an official program of study prior to the completion of 9 credit hours of study. Students should consult with the MAE Graduate Program Director for assistance in filling out their program of study. The program of study must be approved by the department.

Substitutions to the program of study must be approved by the student's faculty adviser and department. More information is available on the MAE departmental website (http://www.mae.ucf.edu/).

**Independent Learning**

The Independent Learning Requirement is met by successful completion of a master's thesis for the thesis option. For nonthesis students, the independent learning experience is provided by BME 6935 - Topics in Biomedical Engineering, one of the required courses.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu  
http://finaid.ucf.edu

**Fellowship Information**

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**Grad Fellowships**

Telephone: 407-823-0127  
gradfellowship@ucf.edu  
https://graduate.ucf.edu/funding/

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**Biomedical Engineering MSBME - Biomedical Engineering MSBME, MD/MSBME Track**

**College**

College of Engineering and Computer Science

**Department**

Department of Mechanical and Aerospace Engineering

**Track Website**

http://www.mae.ucf.edu/

**Track Contact Information**

**Dr. Alain Kassab**

Professor  
Alain.Kassab@ucf.edu  
Telephone: (407) 823-5448  
ENGR I, Room 381

**Is this track available 100% online?**

No
Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Biomedical-Engineering-MS.pdf.

Track Description

The Biomedical Engineering MS program offers an MD/MSBME Track that enables qualified students to earn both the MD and the MSBME degrees.

For medical students, the combined MD/MSBME will run as a 5-year program where the students will complete the majority of the MSBME requirements in the third year after matriculation, prior to their clinical experiences. MD students apply and are admitted into the MSBME program in Fall. Upon successful completion of the Structure and Function and FIRE modules in their first year of medical school, students in the MD/MSBME program will receive 9 hours of credit toward the 30 credit hours required for the requirements of the MSBME degree. Medical students will complete the second year of the curriculum and take a year’s leave of absence to take most of the MSBME degree requirements.

The Biomedical Engineering MS program requires a minimum of 30 credit hours for students who choose the MD/MSBME track. In this restricted admission MD track, students complete biomedical engineering core courses, concentration courses in Biofluids or Biomechanics, and a thesis.

For MD students in this track, the combined MD/MSBME will be a five-year program, where students complete the majority of the MSBME requirements in the third year (15 credit hours of coursework and 3 credit hours of thesis), receive 9 credit hours of transfer credit from their MD program toward the 30 credit hours required for the MSBME, defend their master’s thesis and take the balance of 3 credit hours of thesis in the fifth year, and then graduate with both MD and MSBME degrees.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

Students interested in pursuing both the MD and MSBME degrees must apply and be accepted into medical school and the Biomedical Engineering MS program. Separate applications are required, but students wishing to pursue this joint degree program should indicate this and state their reasons on both applications. Information regarding admission and application to UCF’s MD program can be found at https://med.ucf.edu/administrative-offices/student-affairs/admissions/.

A bachelor's degree in Biomedical, Mechanical or Aerospace Engineering, or a closely related discipline is required. A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Students interested in pursuing both the MD and MSBME degrees must apply and be accepted into medical school and the Biomedical Engineering MS program. Separate applications are required, but students wishing to pursue this joint degree program should indicate this and state their reasons on both applications. Information regarding admission and application to UCF’s MD program can be found at https://med.ucf.edu/administrative-offices/student-affairs/admissions/.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor’s degree in Biomedical, Mechanical or Aerospace Engineering, or a closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- In addition to the above requirements, students must also meet the requirements for medical school admission: https://med.ucf.edu/administrative-offices/student-affairs/admissions/

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MMAE graduate program director for further information.

Graduate Application Deadlines

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Institution Codes
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GMAT: RZT-HT-58
TOEFL: 5233
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Degree Requirements

Core Courses
18 Total Credits

- Complete all of the following
  - Complete the following:
    - BM6001 - Cellular Function and Medical Genetics (5)
    - BME6500C - Bioinstrumentation (3)
    - BME6935 - Topics in Biomedical Engineering (3)
    - EML6211 - Continuum Mechanics (3)
  - Earn at least 4 credits from the following:
    - BSC6433 - Biomedical Sciences II (5)
  - replace BME 5216C and BME 5217C (9 credit hours transferred into MS program of study)

Concentration
6 Total Credits

- Complete 1 of the following
  - Biofluids
    - Complete the following:
      - BME5267 - Biofluid Mechanics (3)
      - BME6268C - Applied and Computational Biofluids (3)
  - Biofluids
    - Complete the following:
      - BME5267 - Biofluid Mechanics (3)
      - BME6268C - Applied and Computational Biofluids (3)

Thesis
6 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - BME6971 - Thesis (99)
  - Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the student's program of study and the proposed thesis topic. The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website (www.cecs.ucf.edu) and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date. Additionally, all students pursuing the thesis option must enroll in the following course: EML 5936 - Mechanical and Aerospace Seminar 0 Credit Hours Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

Grand Total Credits: 30
Track Details

All students must take at least 15 credit hours at the 6000 level. At least 24 credit hours of the program of study must be course work, exclusive of research and thesis hours.

All students must identify an adviser and file an official program of study prior to the completion of 9 credit hours of study. Students should consult with the MAE Graduate Program Director for assistance in filling out their program of study. The program of study must be approved by the department.

Substitutions to the program of study must be approved by the student's faculty adviser and department. More information is available on the MAE departmental website (http://www.mae.ucf.edu/).

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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https://graduate.ucf.edu/funding/

Civil Engineering MS

College

College of Engineering and Computer Science

Department

Department of Civil, Environmental, and Construction Engineering

Program Website

http://www.cece.ucf.edu/

Program Handbook

Civil Engineering MS

Program Contact Information

Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K
Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MS.pdf.

Program Description

The Civil Engineering MS degree program reflects the very broad nature of the field, which encompasses the design, construction, and enhancement of the infrastructure of society. The program offers tracks in Smart Cities, Structural and Geotechnical Engineering, Transportation Systems Engineering, and Water Resources Engineering. Course work includes structural analysis and design, geotechnical engineering and foundations, transportation planning and operations, traffic engineering, construction engineering, and water resources engineering. Please scroll to the bottom of this page for further details on these tracks.

Faculty research interests include geotechnical studies of subsurface conditions, soil testing “superpave” mix design, intelligent transportation systems, traffic safety, structural dynamics, nonlinear structural analysis and software development, reinforced concrete, construction engineering, hydraulic modeling, coastal ocean modeling, stormwater management, and watershed management. Students completing the program find positions in consulting firms, construction, and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

The MS degree offers both thesis and nonthesis options with each requiring 30 credit hours of acceptable graduate work. The thesis option requires a 6 credit hour thesis project and the nonthesis option requires an additional 6 credit hours of electives and an end-of-program portfolio submission.

Individual, independent research studies may be required in one or more courses. The research study and report will focus on reviewing and analyzing contemporary research in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area. In addition, students may engage in six credit hours of independent study during their studies.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-5692
Millican Hall 230
Online Application
Graduate Admissions

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
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Financial Information

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Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Civil Engineering MS - Civil Engineering MS, Smart Cities Track

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Track Website
http://www.cece.ucf.edu/

Track Handbook
Civil Engineering MS

Track Contact Information
Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Is this track available 100% online?
Yes

UCF Online

Please Note: Civil Engineering MS, Smart Cities Track may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MS.pdf.
**Track Description**

In 2017, FUTURe CIty initiative was launched by the College of Engineering and Computer Science (CECS) and Civil, Environmental, and Construction Engineering (CECE) Department. FUTURe CIty initiative at UCF brings together a group of researchers and educators with a vision to synergistically explore the wide-ranging technological advances towards better serving urban residents. The initiative is a pioneering effort in the state and country. It is geared toward many aspects of CECE including: Smart transportation, Smart and resilient infrastructure, Smart and technological advancements in environmental engineering, and water resources.

The track is designed to help future Civil and Environmental Engineers to learn and adapt to the new challenges in the field of Smart Cities and be prepared for their professional roles through a state-of-the-art education. Elements of the track will bridge some of the gaps with other engineering disciplines and open the door for students to collaborate on research and education that are relevant to the cities of the future.

The Smart City Track in the Civil Engineering MS program is for students with appropriate science or engineering baccalaureate backgrounds. Both thesis and non-thesis options are available with each requiring 30 credit hours. The thesis option requires 3 credit hours of required course work, 9 credit hours of Core courses, 12 credit hours of elective graduate course work exclusive of thesis and research, and a thesis (6 credit hours). The non-thesis option requires 3 credit hours of required course work, 15 credit hours of required graduate Core courses, 12 credit hours of electives, and submission of an end-of-program portfolio. Each student must have an individual program of study approved by his/her faculty committee and have completed all required articulation course work as described below. At least one-half of the required credits must be taken at the 6000 level.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor’s Degree**

**Track Prerequisites**

A Bachelor of Science degree in civil engineering or another closely related engineering degree. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Additional undergraduate courses may be required.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admissions decisions are made on the basis of a complete online application only, and not on the basis of any pre-screening. Prospective applicants who are encouraged to apply to their intended graduate program based on the information provided for their pre-screening are not assured of admission or financial assistance when they submit a complete online application. Although it is possible, it is not likely, that prospective applicants who are discouraged from formally applying to a graduate program at the pre-screening stage will be admitted if they elect to submit a complete online application anyway.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

The MS degrees in specialized options are designed for students with appropriate baccalaureate backgrounds. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Additional undergraduate courses may be required.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
Degree Requirements

Required Course
3 Total Credits

- Complete the following:
  - CGN5341 - Interdisciplinary Introduction to Smart Cities' Applications (3)

Core Courses
9 Total Credits

- Complete at least 3 of the following:
  - CCE5220 - Sustainable Infrastructure Systems (3)
  - CEG6610 - Smart Underground Structures: Tunnels and Shafts (3)
  - CES6876 - Smart City Built Infrastructure (3)
  - CGN5617 - Infrastructure Systems Optimization and Identification (3)
  - CGN6342 - Modeling Human Behavior with Emerging Data (3)
  - CGN6343 - Cyber-Physical Systems and Smart Cities (3)
  - ENV6129 - Smart Water and Wastewater Management (3)
  - STA5703 - Data Mining Methodology I (3)
  - TTE6531 - Active Mobility and Technologies: Synergy and Challenges (3)
  - TTE6562 - Policy Aspects of Smart City Transportation (3)
  - TTE6553 - Mobility in Smart Cities: Technologies and Application Areas (3)
  - TTE6627 - Connected and Autonomous Vehicles (3)
  - TTE6608 - Algorithms and Models for Smart Cities (3)
  - CGN5340 - Internet of Things: Applications in Smart Cities (3)

Elective Courses
12 Total Credits

- Complete at least 4 of the following:
  - CAP5415 - Computer Vision (3)
  - CAP5610 - Machine Learning (3)
  - CAP5738 - Visualization Techniques for Data Analysis (3)
  - CEN5016 - Software Engineering (3)
  - CGN6655 - Regional Planning, Design, and Development (3)
  - EEL5825 - Pattern Recognition and Learning from Big Data (3)
  - EEL6026 - Optimization of Engineering Systems (3)
  - EEL6671 - Modern and Optimal Control Systems (3)
  - EMA5104 - Intermediate Structure and Properties of Materials (3)
  - EMA5504 - Modern Characterization of Materials (3)
  - EMA6626 - Mechanical Behavior of Materials (3)
  - EMA6626 - Mechanical Behavior of Materials (3)
  - HMG6449 - Smart Travel and Tourism (3)
  - PAD5337 - Urban Design (3)
  - PAD5930 - Global Cities (3)
  - PAD5356 - Managing Community and Economic Development (3)
  - PAD6399 - Housing Development and Planning (3)
  - PAD6387 - Transportation Policy (3)
  - PAD6716 - Information Systems for Public Managers and Planners (3)
  - STA5104 - Advanced Computer Processing of Statistical Data (3)
  - STA5206 - Statistical Analysis (3)
  - STA5825 - Stochastic Processes and Applied Probability Theory (3)
Thesis/Nonthesis Option

6 Total Credits

♦ Complete 1 of the following

Thesis Option
- Earn at least 6 credits from the following types of courses:
  XXX 6971 - Thesis A successful defense of the thesis is required. In addition, the College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.

Nonthesis Option
- Complete all of the following
  ■ Earn at least 6 credits from the following types of courses:
    Nonthesis students must complete at least 6 additional credit hours of electives from either the list above or other courses as approved by the student's adviser.
  ■ Portfolio Requirement Students are required to complete a culminating experience. The culminating experience for nontesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Grand Total Credits: 30

Track Details

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area.

Equipment Fee

Students in the Civil Engineering MS program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Non-thesis students are required to take at least one of the courses marked with an asterisk (*), denoting an independent learning experience, and submission of an end-of-program portfolio.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Civil Engineering MS - Civil Engineering MS, Structural and Geotechnical Engineering Accelerated BS to MS Track
College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Track Website
http://www.cece.ucf.edu/

Track Handbook
Civil Engineering MS

Track Contact Information
Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this track available 100% online?
Yes

UCF Online

Please Note: Civil Engineering MS, Structural and Geotechnical Engineering Accelerated BS to MS Track may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MS.pdf.
Track Description

The Structural and Geotechnical Engineering Accelerated BS to MS track in the Civil Engineering MS program reflects the very broad nature of the field, which encompasses the design, construction, and enhancement of the structural and geotechnical infrastructure of society.

The program allows highly qualified undergraduate majors in Civil Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program.

The program's course work focuses on structural analysis and design, and geotechnical engineering and foundations, but may include electives in transportation planning and operations, traffic engineering, construction engineering, and water resources engineering.

Faculty research interests include geotechnical studies of subsurface conditions, soil testing "superpave" mix design, intelligent transportation systems, traffic safety, structural dynamics, nonlinear structural analysis and software development, reinforced concrete, construction engineering, hydraulic modeling, coastal ocean modeling, stormwater management, and watershed management. Students completing the program find positions in consulting firms, construction, and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

The department offers a Structural and Geotechnical Engineering Accelerated BS to MS track in the Civil Engineering MS program to students with appropriate science or engineering baccalaureate backgrounds. See undergraduate engineering major requirements in the Undergraduate Catalog. Both a thesis option and a nonthesis option are available with each requiring 30 credit hours. The thesis option requires 12 credit hours of required courses, 12 credit hours of elective graduate course work (exclusive of thesis and research), and 6 credit hours of thesis. The nonthesis option requires 12 credit hours of required courses and 18 credit hours of elective graduate course work. The nonthesis option also requires submission of an end-of-program portfolio. The student must develop an individual program of study with a faculty adviser and must have background or articulation course work as described below. At least one-half of the required credits must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

A Bachelor of Science degree in civil engineering or another closely related engineering degree from UCF.

Prerequisites (Articulation)

- EGN 3310 - Engineering Analysis—Statics 3 Credit Hours
- EGN 3321 - Engineering Analysis—Dynamics 3 Credit Hours
- EGN 3331 - Mechanics of Materials 3 Credit Hours
- CEG 4011C - Geotechnical Engineering I 4 Credit Hours
- CES 4100 - Structural Analysis 4 Credit Hours
- CES 4605 - Steel Structures 3 Credit Hours or
- CES 4702 - Reinforced Concrete Structures 3 Credit Hours

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated BS to MS program in Structural and Geotechnical Engineering allows highly qualified University of Central Florida undergraduate majors in Civil Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but was not previously part of this accelerated program, then they should apply to the Structural and Geotechnical Engineering track.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.
## Graduate Application Deadlines

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<tr>
<th>Structural and Geotechnical Engineering - Accelerated BS to MS</th>
<th><em>Fall Priority</em></th>
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### Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*

### Graduate School Contact

**Jaylin Hudgen**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

### Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

### Institution Codes

- GRE: 5233  
- GMAT: RZT-HT-58  
- TOEFL: 5233  
- ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
  Geotechnical Engineering
  - Complete at least 2 of the following:
    - CEG6065 - Soil Dynamics (3)
    - CEG6115 - Foundation Engineering (3)
    - CEG6317 - Advanced Geotechnical Engineering (3)
    - Course Not Found
    - TTE5835 - Pavement Engineering (3)
    - CGN5506 - Advanced Pavement and Civil Engineering Materials (3)

- Structural Engineering
  - Complete at least 2 of the following:
    - CES5144 - Matrix Methods for Structural Analysis (3)
    - CES5606 - Advanced Steel Structures (3)
    - CES5706 - Advanced Reinforced Concrete (3)
    - CES5821 - Masonry and Timber Design (3)
    - CES6010 - Structural Reliability (3)
    - CES6116 - Finite Element Structural Analysis (3)
    - CES6209 - Dynamics of Structures (3)
    - CES6220 - Wind and Earthquake Engineering (3)
    - CES6230 - Advanced Structural Mechanics (3)
    - CES6527 - Nonlinear Structural Analysis (3)
    - CES6715 - Prestressed Concrete Structures (3)

Non Thesis Students - Required Course Selection
0 Total Credits

- The following courses represent those with specific independent learning experiences and ALL NONTHESIS STUDENTS MUST
  CHOOSE ONE of the courses from each group: Geotechnical Engineering CEG 5700 - Geo-Environmental Engineering CEG 6115
  - Foundation Engineering CES 6170 Structural Engineering CES 5606 - Advanced Steel Structures CES 5706 - Advanced
  Reinforced Concrete CES 6715 - Prestressed Concrete Structures

Elective Courses
12 Total Credits

- Complete all of the following
  - Complete at least 4 of the following:
    - CCE5205 - Decision Support for Infrastructure Projects (3)
    - CCE5006 - Infrastructure Systems Management (3)
    - CCE5220 - Sustainable Infrastructure Systems (3)
    - CCE6036 - Advanced Construction Planning and Control (3)
    - CCE6211 - Design and Monitoring of Construction Processes (3)
    - CCE6045 - Cost Analysis of Sustainable Infrastructure Systems (3)

- All students, both thesis and nonthesis, must complete at least 12 credit hours of approved electives (primarily from
  the above two required course groups but also from the list above or other courses as approved by the student’s
  adviser). Please note that Directed Research (XXX 6918) is not permitted in the MS program of study.

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - XXX 6971 - Thesis A successful defense of the thesis is required. In addition, the College of Engineering and
        Computer Science requires that all thesis defense announcements be approved by the student’s adviser and posted on
        the college’s website and on the university-wide Events Calendar at the College of Graduate Studies website at least two
        weeks before the defense date.
      - Nonthesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        - Nonthesis students must complete at least 6 additional credit hours of electives from the lists above or other
          courses as approved by the student’s adviser. Please note that at least one course in the nonthesis program of
          study must be one of the courses in the "Non Thesis Students - Required Course Selection" above, which
          denotes that this course provides an independent learning experience for the student.
        - Portfolio Requirement Students are required to complete a culminating experience. The culminating
          experience for nonthesis MS students is submission of an end-of-program portfolio. the portfolio requirements
          are listed on the CECE website.

Grand Total Credits: 30
**Track Details**

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area.

**Equipment Fee**

Students in the Civil Engineering MS program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

**Independent Learning**

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses designated in the "Non Thesis Students - Required Course Selection" section above, denoting an independent learning experience, and submission of an end-of-program portfolio.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120  
Telephone: 407-823-2827  
Appointment Line: 407-823-5285  
Fax: 407-823-5241  
finaid@ucf.edu  
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127  
gradfellowship@ucf.edu  
https://funding.graduate.ucf.edu

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**Civil Engineering MS - Civil Engineering MS, Structural and Geotechnical Engineering Track**

**College**

College of Engineering and Computer Science

**Department**

Department of Civil, Environmental, and Construction Engineering

**Track Website**

http://www.cece.ucf.edu/

**Track Handbook**

Civil Engineering MS

**Track Contact Information**

**Andrew Randall PhD PE**

Professor  
andrew.randall@ucf.edu  
Telephone: 407-823-6429  
Engineering II, 211-L

**Ana Lucia Salas**

Graduate Student Services Coordinator  
AnaLucia.Salas@ucf.edu  
Telephone: 407-823-1299  
Engineering II, 211-K
Is this track available 100% online?
Yes

UCF Online

Please Note: Civil Engineering MS, Structural and Geotechnical Engineering Track may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MS.pdf.

Track Description

The Structural and Geotechnical Engineering track in the Civil Engineering MS program focuses on the engineering, analysis, design, and construction of the built infrastructure. The track emphasizes on both: the above-ground engineering (primarily structures), the below-ground engineering (primarily geotechnical), as well as the interaction between the two systems. The program's course work focuses on structural analysis and design, mechanics and materials, foundations, characterization of soils and geomaterials, and computational modeling in structural and geotechnical engineering. Faculty research interests include geotechnical studies of subsurface conditions, soil characterization and testing, pavement design, retaining structures, structural dynamics, nonlinear structural analysis and software development, reinforced and prestressed concrete design, bridge engineering and pavements. Students completing the program find positions in consulting firms, design companies, construction and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

The department offers a Structural and Geotechnical Engineering track in the Civil Engineering MS program to students with appropriate science or engineering baccalaureate backgrounds. Both a thesis option and a nonthesis option are available with each requiring 30 credit hours. The thesis option requires 12 credit hours of required courses, 12 credit hours of elective graduate course work (exclusive of thesis and research), and 6 credit hours of thesis. The nonthesis option requires 12 credit hours of required courses and 18 credit hours of elective graduate course work. The nonthesis option also requires submission of an end-of-program portfolio. The student must develop an individual program of study with a faculty adviser and must have background or articulation course work as described below. At least one-half of the required credits must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

A Bachelor of Science degree in civil engineering or another closely related engineering degree. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Additional undergraduate courses may be required.

Prerequisites (Articulation)

- EGN 3310 - Engineering Analysis—Statics 3 Credit Hours
- EGN 3321 - Engineering Analysis—Dynamics 3 Credit Hours
- EGN 3331 - Mechanics of Materials 3 Credit Hours
- CEG 4011C - Geotechnical Engineering 4 Credit Hours
- CES 4100 - Structural Analysis 4 Credit Hours
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

The MS degrees in specialized options are designed for students with appropriate baccalaureate backgrounds. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Additional undergraduate courses may be required.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen  
gradadmissions@ucf.edu  
Telephone: 407-823-5692  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
  Geotechnical Engineering
  - Complete at least 2 of the following:
    - CEG6065 - Soil Dynamics (3)
    - CEG6115 - Foundation Engineering (3)
    - CEG6317 - Advanced Geotechnical Engineering (3)
    - Course Not Found
    - TTE5835 - Pavement Engineering (3)
    - CGN5506 - Advanced Pavement and Civil Engineering Materials (3)

- Complete at least 2 of the following:
  Structural Engineering
    - CES5144 - Matrix Methods for Structural Analysis (3)
    - CES5606 - Advanced Steel Structures (3)
    - CES5706 - Advanced Reinforced Concrete (3)
    - CES5821 - Masonry and Timber Design (3)
    - CES6010 - Structural Reliability (3)
    - CES6116 - Finite Element Structural Analysis (3)
    - CES6209 - Dynamics of Structures (3)
    - CES6220 - Wind and Earthquake Engineering (3)
    - CES6230 - Advanced Structural Mechanics (3)
    - CES6527 - Nonlinear Structural Analysis (3)
    - CES6715 - Prestressed Concrete Structures (3)

Non Thesis Students - Required Course Selection
0 Total Credits

- The following courses represent those with specific independent learning experiences and ALL NONTHESIS STUDENTS MUST CHOOSE ONE of the courses from each group: Geotechnical Engineering CEG 5700 - Geo-Environmental Engineering CEG 6115 - Foundation Engineering CES 6170 - Boundary Element Methods in Civil Engineering Structural Engineering CES 5606 - Advanced Steel Structures CES 5706 - Advanced Reinforced Concrete CES 6715 - Prestressed Concrete Structures

Elective Courses
12 Total Credits

- Complete all of the following
  - Complete at least 4 of the following:
    - CCE5205 - Decision Support for Infrastructure Projects (3)
    - CCE5006 - Infrastructure Systems Management (3)
    - CCE5220 - Sustainable Infrastructure Systems (3)
    - CCE6036 - Advanced Construction Planning and Control (3)
    - CCE6211 - Design and Monitoring of Construction Processes (3)
    - CCE6045 - Cost Analysis of Sustainable Infrastructure Systems (3)

- All students, both thesis and nonthesis, must complete at least 12 credit hours of approved electives (primarily from the above two required course groups but also from the list above or other courses as approved by the student's adviser). Please note that Directed Research (XXX 6918) is not permitted in the MS program of study.

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      XXX 6971 - Thesis A successful defense of the thesis is required. In addition, the College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  - Nonthesis Option
    - Earn at least 6 credits from the following types of courses:
      Nonthesis students must complete at least 6 additional credit hours of electives from the lists above or other courses as approved by the student's adviser. Please note that at least one course in the nonthesis program of study must be one of the courses in the "Non Thesis Students - Required Course Selection" above, which denotes that this course provides an independent learning experience for the student.
      - Portfolio Requirement Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Grand Total Credits: 30
Track Details

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area.

Equipment Fee

Students in the Civil Engineering MS program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses designated in the "Non Thesis Students - Required Course Selection" section above, denoting an independent learning experience, and submission of an end-of-program portfolio.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Civil Engineering MS - Civil Engineering MS, Transportation Systems Engineering Accelerated BS to MS Track

College

College of Engineering and Computer Science

Department

Department of Civil, Environmental, and Construction Engineering

Track Website

http://www.cece.ucf.edu/

Track Handbook

Civil Engineering MS

Track Contact Information

Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this track available 100% online?

Yes
Please Note: Civil Engineering MS, Transportation Systems Accelerated BS to MS Track may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil_Engineering-MS.pdf.

Track Description

The Transportation Systems Engineering Accelerated BS to MS track in the Civil Engineering MS program reflects the very broad nature of the field, which encompasses the design, construction, and enhancement of the transportation infrastructure of society. The program's course work focuses on transportation planning and operations, traffic engineering and construction engineering.

The program allows highly qualified undergraduate majors in Civil Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program.

Faculty research interests include intelligent transportation systems, traffic safety, traffic signal design, and construction engineering. Students completing the program find positions in consulting firms, construction, and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

The Transportation Systems Engineering Accelerated BS to MS track in the Civil Engineering MS program is for students with appropriate science or engineering baccalaureate backgrounds. See undergraduate engineering major requirements in the Undergraduate Catalog.

Both a thesis option and a nonthesis option are available with each requiring 30 credit hours of graduate courses. The thesis option requires 15 credit hours of required courses, 9 credit hours of elective courses (exclusive of thesis and research), and a thesis (6 credit hours). The nonthesis option requires 15 credit hours of required courses and 15 credit hours of elective graduate course work. The nonthesis option also requires submission of an end-of-program portfolio. The student must develop an individual program of study with a faculty adviser and must have background or articulation course work as described below. At least one-half of the required credits must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor’s Degree

Track Prerequisites

A Bachelor of Science degree in civil engineering or another closely related engineering degree from UCF.

Prerequisites

- STA 3032 - Probability and Statistics for Engineers 3 Credit Hours
- TTE 3810 - Transportation Engineering 3 Credit Hour

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated BS to MS program in Transportation Systems Engineering allows highly qualified University of Central Florida undergraduate majors in Civil Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but was not previously part of this accelerated program, then they should apply to the Transportation Systems Engineering track.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews with applicants before accepting them into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.
Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
15 Total Credits

- Complete all of the following
  - Complete at least 4 of the following:
    - TTE5204 - Traffic Engineering (3)
    - TTE6205 - Highway Capacity (3)
    - TTE5805 - Geometric Design of Transportation Systems (3)
    - TTE5835 - Pavement Engineering (3)
    - TTE6256 - Traffic Operations (3)
    - TTE6270 - Intelligent Transportation Systems (3)
    - TTE6526 - Planning and Design of Airports (3)
    - CGN6655 - Regional Planning, Design, and Development (3)
  - Complete at least 1 of the following:
    - ESI5219 - Engineering Statistics (3)
    - STA5206 - Statistical Analysis (3)

Non Thesis Students - Required Course Selection
0 Total Credits

- The following courses represent those with specific independent learning experiences and ALL NONTHEISIUS STUDENTS MUST CHOOSE ONE of the courses from: TTE 5204 - Traffic Engineering TTE 5805 - Geometric Design of Transportation Systems TTE 6256 - Traffic Operations TTE 6315 - Traffic Safety Analysis TTE 6526 - Planning and Design of Airports

Elective Courses
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  All students, both thesis and nonthesis, must complete at least 9 additional credit hours of approved electives from the required courses above or other courses as approved by the student's adviser. Directed Research (XXX 6918) is not permitted in the MS program of study.

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - TTE 6971 - Thesis A final defense of the thesis is required. In addition, the College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's advisor and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        - Two additional electives, which should preferably come from the above list, although other courses may be chosen with adviser's consent.
      - Portfolio Requirement Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. the portfolio requirements are listed on the CECE website.

Grand Total Credits: 30

Track Details

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students independently acquire knowledge and skills pertaining to best practices in that specialization area.

Equipment Fee

Students in the Civil Engineering MS program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses designated in the "Non Thesis Students - Required Course Selection" section above, denoting an independent learning experience, and submission of an end-of-program portfolio.
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Civil Engineering MS - Civil Engineering MS, Transportation Systems Engineering Track

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Track Website
http://www.cece.ucf.edu/graduate

Track Handbook
Civil Engineering MS

Track Contact Information
Andrew Randall Ph.D., P.E.
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas, ’18, M.S
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this track available 100% online?
Yes

UCF Online
Please Note: Civil Engineering MS, Transportation Systems Track may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

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2021-2022 Graduate Catalog
Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MS.pdf.

Track Description

The Transportation Systems Engineering track in the Civil Engineering MS program reflects the very broad nature of the field, which encompasses the design, and enhancement of the transportation infrastructure of society. The program's course work focuses on transportation planning and traffic engineering.

Faculty research interests include intelligent transportation systems, traffic safety, and traffic signal design. Students completing the program find positions in consulting firms, and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

The Transportation Systems Engineering track in the Civil Engineering MS program is for students with appropriate science or engineering baccalaureate backgrounds. Both a thesis option and a nonthesis option are available with each requiring 30 credit hours of graduate courses. The thesis option requires 15 credit hours of required courses, 9 credit hours of elective courses (exclusive of thesis and research), and a thesis (6 credit hours). The nonthesis option requires 15 credit hours of required courses and 15 credit hours of elective graduate course work. The nonthesis option also requires submission of an end-of-program portfolio. The student must develop an individual program of study with a faculty adviser and must have background or articulation course work as described below. At least one-half of the required credits must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

A Bachelor of Science degree in civil engineering or another closely related engineering degree. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Additional undergraduate courses may be required.

Calculus and Differential Equations must be passed prior to applying to our Graduate Programs

MAC 2311 Calculus with Analytical Geometry 1
MAC 2312 Calculus with Analytical Geometry 2
MAC 2313 Calculus with Analytical Geometry 3
MAP 2302 Ordinary Differential Equations 1

Prerequisites

- STA 3032 - Probability and Statistics for Engineers 3 Credit Hours
- TTE 3810 - Transportation Engineering 3 Credit Hours

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews with applicants before accepting them into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

The MS degrees in specialized options are designed for students with appropriate baccalaureate backgrounds. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Additional undergraduate courses may be required.
## Graduate Application Deadlines

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### Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*

### Graduate School Contact

**Jaylin Hudgen**  
gradadmissions@ucf.edu  
Telephone: 407-823-5692  
Millican Hall 230  
Online Application  
Graduate Admissions

### Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

### Institution Codes

- GRE: 5233
- GMAT: RZT-HT-58
- TOEFL: 5233
- ETS PPI: 5233
Degree Requirements

Required Courses
15 Total Credits

- Complete all of the following
  - Complete at least 4 of the following:
    - TTE5204 - Traffic Engineering (3)
    - TTE5805 - Geometric Design of Transportation Systems (3)
    - TTE5835 - Pavement Engineering (3)
    - TTE6205 - Highway Capacity (3)
    - TTE6256 - Traffic Operations (3)
    - TTE6270 - Intelligent Transportation Systems (3)
    - TTE6275 - Connected and Autonomous Vehicles (3)
    - TTE6315 - Traffic Safety Analysis (3)
    - TTE6526 - Planning and Design of Airports (3)
    - TTE6625 - Mass Transportation Systems (3)
    - TTE6667 - Discrete Choice Modeling in Transportation (3)
    - CGN6655 - Regional Planning, Design, and Development (3)
  - Complete at least 1 of the following:
    - ESI5219 - Engineering Statistics (3)
    - STA5206 - Statistical Analysis (3)

Non Thesis Students - Required Course Selection
0 Total Credits

- The following courses represent those with specific independent learning experiences and ALL NONTHESIS STUDENTS MUST CHOOSE ONE of the courses from: TTE 5204 - Traffic Engineering TTE 5805 - Geometric Design of Transportation Systems TTE 6256 - Traffic Operations TTE 6315 - Traffic Safety Analysis TTE 6526 - Planning and Design of Airports

Elective Courses
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  All students, both thesis and nonthesis, must complete at least 9 additional credit hours of approved electives from the required courses above or other courses as approved by the student's adviser. Directed Research (XXX 6918) is not permitted in the MS program of study.

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      TTE 6971 - Thesis A final defense of the thesis is required. In addition, the College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's advisor and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        Two additional electives, which should preferably come from the above list, although other courses may be chosen with adviser's consent.
      - Portfolio Requirement Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. the portfolio requirements are listed on the CECE website.

Grand Total Credits: 30
Track Details

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students independently acquire knowledge and skills pertaining to best practices in that specialization area.

Equipment Fee

Students in the Civil Engineering MS program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses designated in the "Non Thesis Students - Required Course Selection" section above, denoting an independent learning experience, and submission of an end-of-program portfolio.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

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Civil Engineering MS - Civil Engineering MS, Water Resources Engineering Accelerated BS to MS Track

College

College of Engineering and Computer Science

Department

Department of Civil, Environmental, and Construction Engineering

Track Website

http://www.cece.ucf.edu/

Track Handbook

Civil Engineering MS
Track Contact Information

Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this track available 100% online?
Yes

UCF Online

Please Note: Civil Engineering MS, Water Resources Engineering Accelerated BS to MS Track may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MS.pdf.

Track Description

The Water Resources Engineering Accelerated BS to MS track in the Civil Engineering MS program reflects the very broad nature of the field, which encompasses the design, construction, and enhancement of the sustainable infrastructure for society. The program's course work focuses on water resources modeling, hydraulics and hydrology.

The program allows highly qualified undergraduate majors in Civil Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program.

Water Resource faculty research interests include ecohydraulic and ecohydrologic modeling, groundwater and surface hydrology, sea level rise and other climate change impact assessments, stormwater management, tide, wind-wave and hurricane storm surge modeling, and environmental water resources management. Students completing the program find positions in consulting firms, construction and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

The Water Resources Engineering Accelerated BS to MS track in the Civil Engineering MS program is for students with appropriate science or engineering baccalaureate backgrounds. See undergraduate engineering major requirements in the Undergraduate Catalog.

Both thesis and non-thesis options are available with each requiring 30 credit hours. The thesis option requires 15 credit hours of required courses, 9 credit hours of elective graduate course work exclusive of thesis and research, and a thesis (6 credit hours). The nonthesis option requires 15 credit hours of required graduate course work, 15 credit hours of electives, and submission of an end-of-program portfolio. Each student must have an individual program of study approved by his/her faculty committee and have completed all required articulation course work as described below. At least one-half of the required credits must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

A Bachelor of Science degree in civil engineering or another closely related engineering degree from UCF.

Prerequisites (Articulation)

- CEG 4011C - Geotechnical Engineering | 4 Credit Hours
- CWR 4632C - Water Resources | 4 Credit Hours
- CWR 4633C - Water Resources II | 3 Credit Hours
- EGN 3613 - Engineering Economic Analysis | 2 Credit Hours
- STA 3032 - Probability and Statistics for Engineers | 3 Credit Hours

2021-2022 Graduate Catalog
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated BS to MS program in Water Resources Engineering allows highly qualified University of Central Florida undergraduate majors in Civil Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but was not previously part of this accelerated program, then they should apply to the Water Resources Engineering track.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
**Degree Requirements**

**Required Courses**

15 Total Credits  
- Complete at least 5 of the following:
  - CWR5125 - Groundwater Hydrology (3)  
  - CWR5205 - Hydraulic Engineering (3)  
  - CWR5515 - Numerical Methods in Civil and Environmental Engineering (3)  
  - CWR5545 - Water Resources Engineering (3)  
  - CWR5634 - Water Resources in a Changing Environment (3)  
  - CWR6102 - Advanced Hydrology (3)  
  - CWR6126 - Groundwater Modeling (3)  
  - CWR6235 - Open Channel Hydraulics (3)  
  - CWR6235 - Open Channel Hydraulics (3)  
  - CWR6535 - Modeling Water Resources Systems (3)  
  - CWR6539 - Finite Elements in Surface Water Modeling (3)

**Non Thesis Students - Required Course Selection**  
0 Total Credits  
- The following courses represent those with specific independent learning experiences and ALL NONTHERESIS STUDENTS MUST CHOOSE ONE of the courses from: CWR 6102 - Advanced Hydrology CWR 6126 - Groundwater Modeling CWR 6235 - Open Channel Hydraulics CWR 6535 - Modeling Water Resources Systems

**Elective Courses**

9 Total Credits  
- Earn at least 9 credits from the following types of courses:  
  - All students, both thesis and nonthesis, must complete at least 9 additional credit hours of approved electives from the required courses above or other courses as approved by the student's adviser. Directed Research (XXX 6918) is not permitted in the MS program of study.

**Thesis/Nonthesis Option**

6 Total Credits  
- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - CWR 6971 - Thesis A successful defense of the thesis is required. In addition, the College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
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**Grand Total Credits:** 30

### Track Details

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area.

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2021-2022 Graduate Catalog
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Civil Engineering MS - Civil Engineering MS, Water Resources Engineering Track

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Track Website
http://www.cece.ucf.edu/

Track Handbook
Civil Engineering MS

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Track Description

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Water Resource faculty research interests include ecohydraulic and ecohydrologic modeling, groundwater and surface hydrology, sea level rise and other climate change impact assessments, stormwater management, tide, wind-wave and hurricane storm surge modeling, and environmental water resources management, and stormwater management. Students completing the program find positions in consulting firms, construction and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

The Water Resources Engineering track in the Civil Engineering MS program is for students with appropriate science or engineering baccalaureate backgrounds. Both thesis and non-thesis options are available with each requiring 30 credit hours. The thesis option requires 15 credit hours of required courses, 9 credit hours of elective graduate course work exclusive of thesis and research, and a thesis (6 credit hours). The nonthesis option requires 15 credit hours of required graduate course work, 15 credit hours of electives, and submission of an end-of-program portfolio. Each student must have an individual program of study approved by his/her faculty committee and have completed all required articulation course work as described below. At least one-half of the required credits must be taken at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

A Bachelor of Science degree in civil engineering or another closely related engineering degree. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites.

Prerequisites (Articulation)

- CEG 4011C - Geotechnical Engineering 4 Credit Hours
- CWR 4202C - Hydraulics 4 Credit Hours
- CWR 4120 - Hydrology 3 Credit Hours
- EGN 3613 - Engineering Economic Analysis 2 Credit Hours
- STA 3032 - Probability and Statistics for Engineers 3 Credit Hours

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
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- Résumé.
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- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

The MS degrees in specialized options are designed for students with appropriate baccalaureate backgrounds. Applicants who are applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Additional undergraduate courses may be required.

Graduate Application Deadlines

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GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
**Degree Requirements**

**Required Courses**
15 Total Credits

- Complete at least 5 of the following:
  - CWR5125 - Groundwater Hydrology (3)
  - CWR5205 - Hydraulic Engineering (3)
  - CWR5515 - Numerical Methods in Civil and Environmental Engineering (3)
  - CWR5545 - Water Resources Engineering (3)
  - CWR5634 - Water Resources in a Changing Environment (3)
  - CWR6102 - Advanced Hydrology (3)
  - CWR6126 - Groundwater Modeling (3)
  - CWR6235 - Open Channel Hydraulics (3)
  - CWR6236 - River Engineering and Sediment Transport (3)
  - CWR6535 - Modeling Water Resources Systems (3)
  - CWR6539 - Finite Elements in Surface Water Modeling (3)

**Non Thesis Students - Required Course Selection**
0 Total Credits

- The following courses represent those with specific independent learning experiences and ALL NONTHESIS STUDENTS MUST CHOOSE ONE of the courses from: CWR 6102 - Advanced Hydrology CWR 6126 - Groundwater Modeling CWR 6535 - Modeling Water Resources Systems

**Elective Courses**
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  - All students, both thesis and nonthesis, must complete at least 9 additional credit hours of approved electives from the required courses above or other courses as approved by the student's adviser. Directed Research (XXX 6918) is not permitted in the MS program of study.

**Thesis/Nonthesis Option**
6 Total Credits

- Complete 1 of the following
  - **Thesis Option**
    - Earn at least 6 credits from the following types of courses:
      - CWR 6971 - Thesis A successful defense of the thesis is required. In addition, the College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  - **Nonthesis Option**
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        - Two additional electives, which should preferably come from the above list, although other courses may be chosen with adviser's consent.
      - Portfolio Requirement Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

**Grand Total Credits: 30**

**Track Details**
Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area.

**Equipment Fee**
Students in the Civil Engineering MS program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

**Independent Learning**
A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses designated in the "Non Thesis Students - Required Course Selection" section above, denoting an independent learning experience, and submission of an end-of-program portfolio.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Civil Engineering MSCE

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Program Website
http://www.cece.ucf.edu/

Program Handbook
Civil Engineering MSCE

Program Contact Information

Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this program available 100% online?
Yes

UCF Online

Please Note: Civil Engineering MSCE may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MSCE.pdf.

Program Description

The Master of Science in Civil Engineering degree is designed for students who have an undergraduate degree in Civil Engineering or another closely related engineering degree. Graduate work and research in civil engineering reflect the very broad nature of the field, which encompasses the design, construction, and enhancement of the infrastructure of society.

The program includes course work in structural analysis and design, geotechnical engineering and foundations, transportation planning and operations, traffic engineering, construction engineering, water resources engineering, and smart cities.

Faculty research interests include geotechnical studies of subsurface conditions, soil testing "superpave" mix design, intelligent transportation systems, traffic safety, structural dynamics, nonlinear structural analysis and software development, reinforced concrete, construction engineering, hydraulic modeling, coastal ocean modeling, stormwater management, and watershed management. Students completing the program find positions in consulting firms, construction, and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

This degree has 2 tracks: Accelerated BS to MSCE Track and Construction Engineering Accelerated BS to MSCE Track. Please scroll to the bottom of this page for further details on these Tracks.

The Civil Engineering MSCE program requires a minimum of 30 credit hours beyond the bachelor's degree, and both thesis and nonthesis options are available. The thesis option requires 24 credit hours of formal graduate-level course work and 6 credit hours of thesis. The nonthesis option requires 30 hours of formal course work and completion of a culminating experience. For nonthesis MS students, the culminating experience is submission of a portfolio that satisfies program requirements. It is strongly suggested that part-time students pursue the nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

A Bachelor of Science degree in civil engineering or another closely related engineering degree.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-5692
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Elective Courses (See Program Details For Groupings)
24 Total Credits

- Earn at least 24 credits from the following:
  - CEG6065 - Soil Dynamics (3)
  - CEG6115 - Foundation Engineering (3)
  - CEG6317 - Advanced Geotechnical Engineering (3)
  - CES5144 - Matrix Methods for Structural Analysis (3)
  - CES5325 - Bridge Engineering (3)
  - CES5606 - Advanced Steel Structures (3)
  - CES5706 - Advanced Reinforced Concrete (3)
  - CES5821 - Masonry and Timber Design (3)
  - CES6010 - Structural Reliability (3)
  - CES6116 - Finite Element Structural Analysis (3)
  - CES6209 - Dynamics of Structures (3)
  - CES6220 - Wind and Earthquake Engineering (3)
  - CES6230 - Advanced Structural Mechanics (3)
  - CES6527 - Nonlinear Structural Analysis (3)
  - CES6715 - Prestressed Concrete Structures (3)
  - Course Not Found
  - TTE5204 - Traffic Engineering (3)
  - TTE5805 - Geometric Design of Transportation Systems (3)
  - TTE5835 - Pavement Engineering (3)
  - TTE6205 - Highway Capacity (3)
  - TTE6256 - Traffic Operations (3)
  - TTE6270 - Intelligent Transportation Systems (3)
  - TTE6315 - Traffic Safety Analysis (3)
  - TTE6526 - Planning and Design of Airports (3)
  - TTE6625 - Mass Transportation Systems (3)
  - CGN6655 - Regional Planning, Design, and Development (3)
  - CWR5125 - Groundwater Hydrology (3)
  - CWR5205 - Hydraulic Engineering (3)
  - CWR5515 - Numerical Methods in Civil and Environmental Engineering (3)
  - CWR5555 - Water Resources Engineering (3)
  - CWR5634 - Water Resources in a Changing Environment (3)
  - CWR6102 - Advanced Hydrology (3)
  - CWR6102 - Advanced Hydrology (3)
  - CWR6235 - Open Channel Hydraulics (3)
  - CWR6236 - River Engineering and Sediment Transport (3)
  - CWR6535 - Modeling Water Resources Systems (3)
  - CCE5220 - Sustainable Infrastructure Systems (3)
  - CEG6610 - Smart Underground Structures: Tunnels and Shafts (3)
  - CES6876 - Smart City Built Infrastructure (3)
  - CGN5617 - Infrastructure Systems Optimization and Identification (3)
  - CGN6342 - Modeling Human Behavior with Emerging Data (3)
  - CN6343 - Cyber-Physical Systems and Smart Cities (3)
  - ENV6128 - Smart Air Quality Monitoring and Air Pollution Control (3)
  - ENV6533 - Smart Water and Wastewater Management (3)
  - STA5703 - Data Mining Methodology I (3)
  - TTE5531 - Active Mobility and Technologies: Synergy and Challenges (3)
  - TTE5532 - Policy Aspects of Smart City Transportation (3)
Non Thesis Students - Required Course Selection

0 Total Credits

- Nonthesis students must take at least one course where a research project is required (one course marked with an asterisk - See Program Details Section Below for asterisks).

Thesis/Nonthesis Option

6 Total Credits

- Complete 1 of the following
  - Thesis Option
  - Earn at least 6 credits from the following types of courses:
    XXX 6971 - Thesis (with the course prefix of CGN, CEG, CES, CWR or TTE) For those pursuing the thesis option, students must complete 6 credit hours of thesis and successfully defend the thesis. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  - Nonthesis Option
  - Complete all of the following
    - Earn at least 6 credits from the following types of courses:
      - Nonthesis students must complete at least 6 additional credit hours of electives from the lists above or other courses as approved by the student's adviser. Please note that at least one course in the nonthesis program of study must be one of the courses in the "Program Details" section below that has an asterisk, which denotes that this course provides an independent learning experience for the student.
      - Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of their portfolio of activities by the course Withdrawal date of the semester prior to their intended graduation. The portfolio requirements are listed on the CECE website.

Grand Total Credits: 30

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Civil Engineering MSCE - Civil Engineering MSCE, Accelerated BS to MSCE Track
College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Track Website
http://www.cece.ucf.edu/

Track Handbook
Civil Engineering MSCE

Track Contact Information
Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this track available 100% online?
Yes

UCF Online

Please Note: Civil Engineering MSCE, Accelerated BS to MSCE may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-MSCE.pdf.
Track Description

The Master of Science in Civil Engineering degree is designed for students who have an undergraduate degree in Civil Engineering or another closely related engineering degree. See undergraduate engineering major requirements in the Undergraduate Catalog. Graduate work and research in civil engineering reflect the very broad nature of the field, which encompasses the design, construction, and enhancement of the infrastructure of society.

The program allows highly qualified undergraduate majors in Civil Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program.

The Master of Science in Civil Engineering (MSCE), Accelerated BS to MSCE degree is designed for students who have an undergraduate degree in Civil Engineering or another closely related engineering degree. Graduate work and research in civil engineering reflects the very broad nature of the field, which encompasses the design, construction, and enhancement of the infrastructure of society. The program includes course work in structural analysis and design, geotechnical engineering and foundations, transportation planning and operations, traffic engineering, construction engineering, and water resources engineering.

Faculty research interests include geotechnical studies of subsurface conditions, soil testing “superpave” mix design, intelligent transportation systems, traffic safety, structural dynamics, nonlinear structural analysis and software development, reinforced concrete, construction engineering, hydraulic modeling, coastal ocean modeling, stormwater management, and watershed management. Students completing the program find positions in consulting firms, construction, and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

The Civil Engineering MSCE program requires a minimum of 30 credit hours beyond the bachelor's degree, and both thesis and nonthesis options are available. The thesis option requires 24 credit hours of formal graduate-level course work and 6 credit hours of thesis. The nonthesis option requires 30 hours of formal course work and completion of a culminating experience. For nonthesis MS students, the culminating experience is submission of a portfolio that satisfies program requirements. It is strongly suggested that part-time students pursue the nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

A Bachelor of Science degree in civil engineering or another closely related engineering degree from UCF.

Application Requirements

The Accelerated BS to MSCE program allows highly qualified University of Central Florida undergraduate majors in Civil Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but was not previously part of this accelerated program, then they should apply to the Civil Engineering MSCE.

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

Graduate Application Deadlines

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Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Elective Courses (See Program Details For Groupings)
24 Total Credits

- Earn at least 24 credits from the following:
  - CEG6065 - Soil Dynamics (3)
  - CEG6115 - Foundation Engineering (3)
  - CEG6317 - Advanced Geotechnical Engineering (3)
  - CES5144 - Matrix Methods for Structural Analysis (3)
  - CES5325 - Bridge Engineering (3)
  - CES5606 - Advanced Steel Structures (3)
  - CES5706 - Advanced Reinforced Concrete (3)
  - CES5821 - Masonry and Timber Design (3)
  - CES6010 - Structural Reliability (3)
  - CES6116 - Finite Element Structural Analysis (3)
  - CES6209 - Dynamics of Structures (3)
  - CES6220 - Wind and Earthquake Engineering (3)
  - CES6230 - Advanced Structural Mechanics (3)
  - CES6527 - Nonlinear Structural Analysis (3)
  - CES6715 - Prestressed Concrete Structures (3)
  - Course Not Found
  - TTE5204 - Traffic Engineering (3)
  - TTE5805 - Geometric Design of Transportation Systems (3)
  - TTE5835 - Pavement Engineering (3)
  - TTE6205 - Highway Capacity (3)
  - TTE6256 - Traffic Operations (3)
  - TTE6270 - Intelligent Transportation Systems (3)
  - TTE6315 - Traffic Safety Analysis (3)
  - TTE6526 - Planning and Design of Airports (3)
  - TTE6625 - Mass Transportation Systems (3)
  - CGN6655 - Regional Planning, Design, and Development (3)
  - CWR5125 - Groundwater Hydrology (3)
  - CWR5205 - Hydraulic Engineering (3)
  - CWR5515 - Numerical Methods in Civil and Environmental Engineering (3)
  - CWR5545 - Water Resources Engineering (3)
  - CWR5634 - Water Resources in a Changing Environment (3)
  - CWR6102 - Advanced Hydrology (3)
  - CWR6126 - Groundwater Modeling (3)
  - CWR6235 - Open Channel Hydraulics (3)
  - CWR6236 - River Engineering and Sediment Transport (3)
  - CWR6535 - Modeling Water Resources Systems (3)
  - CCE5205 - Decision Support for Infrastructure Projects (3)
  - CCE5006 - Infrastructure Systems Management (3)
  - CCE5220 - Sustainable Infrastructure Systems (3)
  - CCE5937 - Special Topics (3)
  - CCE6036 - Advanced Construction Planning and Control (3)
  - CCE6211 - Design and Monitoring of Construction Processes (3)
  - CCE6045 - Cost Analysis of Sustainable Infrastructure Systems (3)

Non Thesis Students - Required Course Selection
0 Total Credits

- Nonthesis students must take at least one course where a research project is required (one course marked with an asterisk -

2021-2022 Graduate Catalog
See Program Details Section Below for asterisks).

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - XXX 6971 - Thesis (with the course prefix of CGN, CEG, CES, CWR or TTE) For those pursuing the thesis option, students must complete 6 credit hours of thesis and successfully defend the thesis. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  - Nonthesis Option
    - Complete all of the following
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        - Nonthesis students must complete at least 6 additional credit hours of electives from the lists above or other courses as approved by the student's adviser. Please note that at least one course in the nonthesis program of study must be one of the courses in the "Program Details" section below that has an asterisk, which denotes that this course provides an independent learning experience for the student.
        - Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of their portfolio of activities by the course Withdrawal date of the semester prior to their intended graduation. The portfolio requirements are listed on the CECE website.

Grand Total Credits: 30

**Track Details**

Students must develop an individual plan of study with a faculty adviser by their second semester of study. At least one-half of the required credits must be taken at the 6000 level.

Research studies are required in one or more courses. The research study and report will focus on reviewing and analyzing contemporary research in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area. In addition, students may engage in directed independent studies, directed research or a research report during their studies. Courses with asterisks represent those with specific independent learning experiences, and all nonthesis students must choose at least one course with an asterisk.

**Geotechnical Engineering**

- CEG 6065 - Soil Dynamics 3 Credit Hours *
- CEG 6115 - Foundation Engineering 3 Credit Hours
- CEG 6317 - Advanced Geotechnical Engineering 3 Credit Hours

**Structural Engineering**

- CES 5144 - Matrix Methods for Structural Analysis 3 Credit Hours
- CES 5325 - Bridge Engineering 3 Credit Hours *
- CES 5606 - Advanced Steel Structures 3 Credit Hours
- CES 5706 - Advanced Reinforced Concrete 3 Credit Hours
- CES 5821 - Masonry and Timber Design 3 Credit Hours
- CES 6010 - Structural Reliability 3 Credit Hours
- CES 6116 - Finite Element Structural Analysis 3 Credit Hours
- CES 6209 - Dynamics of Structures 3 Credit Hours *
- CES 6220 - Wind and Earthquake Engineering 3 Credit Hours
- CES 6230 - Advanced Structural Mechanics 3 Credit Hours
- CES 6527 - Nonlinear Structural Analysis 3 Credit Hours
- CES 6715 - Prestressed Concrete Structures 3 Credit Hours *
- CES 6840 - Composite Steel Concrete Structures 3 Credit Hours *

**Transportation Engineering**

- TTE 5204 - Traffic Engineering 3 Credit Hours
- TTE 5805 - Geometric Design of Transportation Systems 3 Credit Hours
- TTE 5835 - Pavement Engineering 3 Credit Hours
- TTE 6205 - Highway Capacity 3 Credit Hours *
- TTE 6256 - Traffic Operations 3 Credit Hours
- TTE 6270 - Intelligent Transportation Systems 3 Credit Hours *
- TTE 6315 - Traffic Safety Analysis 3 Credit Hours *
- TTE 6526 - Planning and Design of Airports 3 Credit Hours
- TTE 6625 - Mass Transportation Systems 3 Credit Hours
- CGN 6655 - Regional Planning, Design, and Development 3 Credit Hours

**Water Resources Engineering**

- CWR 5125 - Groundwater Hydrology 3 Credit Hours
- CWR 5205 - Hydraulic Engineering 3 Credit Hours
- CWR 5515 - Numerical Methods in Civil and Environmental Engineering 3 Credit Hours

2021-2022 Graduate Catalog
CWR 5545 - Water Resources Engineering 3 Credit Hours
CWR 5634 - Water Resources in a Changing Environment 3 Credit Hours
CWR 6102 - Advanced Hydrology 3 Credit Hours *
CWR 6126 - Groundwater Modeling 3 Credit Hours *
CWR 6235 - Open Channel Hydraulics 3 Credit Hours
CWR 6236 - River Engineering and Sediment Transport 3 Credit Hours
CWR 6535 - Modeling Water Resources Systems 3 Credit Hours *

Construction Engineering and Management

CCE 5205 - Decision Support for Infrastructure Projects 3 Credit Hours
CCE 5006 - Infrastructure Systems Management 3 Credit Hours
CCE 5220 - Sustainable Infrastructure Systems 3 Credit Hours
CCE 5937 - Construction Contracts 3 Credit Hours
CCE 6036 - Advanced Construction Planning and Control 3 Credit Hours *
CCE 6211 - Design and Monitoring of Construction Processes 3 Credit Hours *
CCE 6045 - Cost Analysis of Sustainable Infrastructure Systems 3 Credit Hours

Equipment Fee
Students in the Civil Engineering MSCE program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

Independent Learning
A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one course where a research project is required and submit an end-of-program portfolio.

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Grad Fellowships
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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Civil Engineering MSCE - Civil Engineering MSCE, Construction Engineering Accelerated BS to MSCE Track

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Track Website
http://www.cece.ucf.edu/

Track Handbook
Civil Engineering MSCE
Is this track available 100% online?

Yes

UCF Online

Please Note: Civil Engineering MSCE, Construction Engineering Accelerated BS to MSCE may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

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Track Description

The Master of Science in Civil Engineering, Construction Engineering Accelerated BS to MSCE track is designed for students who have an undergraduate degree in Civil Engineering or another closely related engineering degree. Graduate work and research in civil engineering reflects the very broad nature of the field, which encompasses the design, construction, and enhancement of the infrastructure of society.

Graduate work and research in civil engineering reflect the very broad nature of the field, which encompasses the design, construction, and enhancement of the infrastructure of society. The program allows highly qualified undergraduate majors in Civil Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program.

The Master of Science in Civil Engineering (MSCE), Construction Engineering Accelerated BS to MSCE Track is designed for students who have an undergraduate degree in Civil Engineering or another closely related engineering degree. Graduate work and research in civil engineering reflects the very broad nature of the field, which encompasses the design, construction, and enhancement of the infrastructure of society. The program includes course work in structural analysis and design, geotechnical engineering and foundations, transportation planning and operations, traffic engineering, construction engineering, and water resources engineering.

Faculty research interests include geotechnical studies of subsurface conditions, soil testing “superpave” mix design, intelligent transportation systems, traffic safety, structural dynamics, nonlinear structural analysis and software development, reinforced concrete, construction engineering, hydraulic modeling, coastal ocean modeling, stormwater management, and watershed management. Students completing the program find positions in consulting firms, construction, and construction-related industries, in city, county, state, and federal government agencies, and academic institutions.

The Civil Engineering MSCE, Construction Engineering Accelerated BS to MSCE Track program requires a minimum of 30 credit hours beyond the bachelor's degree, and both thesis and nonthesis options are available. The thesis option requires 24 credit hours of formal graduate-level course work and 6 credit hours of thesis. The nonthesis option requires 30 hours of formal course work and completion of a culminating experience. For nonthesis MS students, the culminating experience is submission of a portfolio that satisfies program requirements. It is strongly suggested that part-time students pursue the nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

A Bachelor of Science degree in civil engineering or another closely related engineering degree from UCF.

2021-2022 Graduate Catalog
Application Requirements

The Accelerated BS to MSCE track in Construction Engineering allows highly qualified University of Central Florida undergraduate majors in Civil Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but was not previously part of this accelerated program, then they should apply to the Civil Engineering MSCE.

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Civil Engineering MSCE, Construction Engineering Accelerated BS to MSCE</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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</thead>
<tbody>
<tr>
<td>Domestic Applicants</td>
<td>Jan 15</td>
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<tr>
<td>International Applicants</td>
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</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-5692
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233

Degree Requirements

Elective Courses (See Program Details For Groupings)
24 Total Credits

- Earn at least 24 credits from the following:
  - CEG6065 - Soil Dynamics (3)
  - CEG6115 - Foundation Engineering (3)
  - CEG6317 - Advanced Geotechnical Engineering (3)
  - CES5144 - Matrix Methods for Structural Analysis (3)
  - CES5325 - Bridge Engineering (3)
  - CES5606 - Advanced Steel Structures (3)
  - CES5706 - Advanced Reinforced Concrete (3)
  - CES5821 - Masonry and Timber Design (3)
  - CES6010 - Structural Reliability (3)
  - CES6116 - Finite Element Structural Analysis (3)
  - CES6209 - Dynamics of Structures (3)
Non Thesis Students - Required Course Selection

0 Total Credits

- Nonthesis students must take at least one course where a research project is required (one course marked with an asterisk - See Program Details Section Below for asterisks).

Thesis/Nonthesis Option

6 Total Credits

- Complete 1 of the following
  - Thesis Option
  - Earn at least 6 credits from the following types of courses:
    - XXX 6971 - Thesis (with the course prefix of CGN, CEG, CES, CWR or TTE) For those pursuing the thesis option, students must complete 6 credit hours of thesis and successfully defend the thesis. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  - Nonthesis Option
  - Complete all of the following
    - Earn at least 6 credits from the following types of courses:
      - Nonthesis students must complete at least 6 additional credit hours of electives from the lists above or other courses as approved by the student's adviser. Please note that at least one course in the nonthesis program of study must be one of the courses in the "Program Details" section below that has an asterisk, which denotes that this course provides an independent learning experience for the student.
      - Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of their portfolio of activities by the course Withdrawal date of the semester prior to their intended graduation. The portfolio requirements are listed on the CECE website.

Grand Total Credits: 30

Track Details

Students must develop an individual plan of study with a faculty adviser by their second semester of study. At least one-half of the required credits must be taken at the 6000 level.

Research studies are required in one or more courses. The research study and report will focus on reviewing and analyzing contemporary research in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to research-based best practices in that specialization area. In addition, students may engage in directed independent studies, directed research or a research report during their studies. Courses with asterisks represent those with specific independent learning experiences, and all nonthesis students must choose at least one course with an asterisk.

Geotechnical Engineering
- CEG 6065 - Soil Dynamics 3 Credit Hours
- CEG 6115 - Foundation Engineering 3 Credit Hours
- CEG 6317 - Advanced Geotechnical Engineering 3 Credit Hours

**Structural Engineering**
- CES 5144 - Matrix Methods for Structural Analysis 3 Credit Hours
- CES 5325 - Bridge Engineering 3 Credit Hours
- CES 5606 - Advanced Steel Structures 3 Credit Hours
- CES 5706 - Advanced Reinforced Concrete 3 Credit Hours
- CES 5821 - Masonry and Timber Design 3 Credit Hours
- CES 6010 - Structural Reliability 3 Credit Hours
- CES 6116 - Finite Element Structural Analysis 3 Credit Hours
- CES 6209 - Dynamics of Structures 3 Credit Hours
- CES 6220 - Wind and Earthquake Engineering 3 Credit Hours
- CES 6230 - Advanced Structural Mechanics 3 Credit Hours
- CES 6527 - Nonlinear Structural Analysis 3 Credit Hours
- CES 6715 - Prestressed Concrete Structures 3 Credit Hours
- CES 6840 - Composite Steel Concrete Structures 3 Credit Hours
- CES 6910 - Research in Structural Engineering 3 Credit Hours

**Transportation Engineering**
- TTE 5204 - Traffic Engineering 3 Credit Hours
- TTE 5805 - Geometric Design of Transportation Systems 3 Credit Hours
- TTE 5835 - Pavement Engineering 3 Credit Hours
- TTE 6205 - Highway Capacity 3 Credit Hours
- TTE 6256 - Traffic Operations 3 Credit Hours
- TTE 6270 - Intelligent Transportation Systems 3 Credit Hours
- TTE 6315 - Traffic Safety Analysis 3 Credit Hours
- TTE 6526 - Planning and Design of Airports 3 Credit Hours
- TTE 6625 - Mass Transportation Systems 3 Credit Hours
- CGN 6655 - Regional Planning, Design, and Development 3 Credit Hours

**Water Resources Engineering**
- CWR 5125 - Groundwater Hydrology 3 Credit Hours
- CWR 5206 - Hydraulic Engineering 3 Credit Hours
- CWR 5515 - Numerical Methods in Civil and Environmental Engineering 3 Credit Hours
- CWR 5545 - Water Resources Engineering 3 Credit Hours
- CWR 5634 - Water Resources in a Changing Environment 3 Credit Hours
- CWR 6102 - Advanced Hydrology 3 Credit Hours
- CWR 6126 - Groundwater Modeling 3 Credit Hours
- CWR 6235 - Open Channel Hydraulics 3 Credit Hours
- CWR 6236 - River Engineering and Sediment Transport 3 Credit Hours
- CWR 6535 - Modeling Water Resources Systems 3 Credit Hours

**Construction Engineering and Management**
- CCE 5205 - Decision Support for Infrastructure Projects 3 Credit Hours
- CCE 5006 - Infrastructure Systems Management 3 Credit Hours
- CCE 5220 - Sustainable Infrastructure Systems 3 Credit Hours
- CCE 5937 - Construction Contracts 3 Credit Hours
- CCE 6036 - Advanced Construction Planning and Control 3 Credit Hours
- CCE 6211 - Design and Monitoring of Construction Processes 3 Credit Hours
- CCE 6045 - Cost Analysis of Sustainable Infrastructure Systems 3 Credit Hours

**Equipment Fee**
Students in the Civil Engineering MSCE program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

**Independent Learning**
A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one course where a research project is required and submit an end-of-program portfolio.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Civil Engineering PhD

College

College of Engineering and Computer Science

Department

Department of Civil, Environmental, and Construction Engineering

Program Website

http://www.cece.ucf.edu/

Program Handbook

Civil Engineering PhD

Program Contact Information

Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this program available 100% online?

No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Civil-Engineering-PhD.pdf

2021-2022 Graduate Catalog
**Program Description**

The Civil Engineering PhD program reflects the very broad nature of the field, which encompasses the design, construction, and enhancement of the infrastructure of society. The Civil Engineering PhD program includes courses and research in structural analysis and design, geotechnical engineering and foundations, transportation planning and operations, traffic engineering, construction engineering, water resources engineering, and smart cities. The degree will prepare students for roles in consulting firms, civil and construction-related industries, academic institutions, and city, county, state and federal government agencies.

Faculty research interests include subsurface conditions and soil testing, geotechnical materials, soil and structural dynamics, intelligent transportation systems, traffic safety, nonlinear structural analysis, reinforced concrete, structural health monitoring, sensors and data analytics for infrastructure, construction engineering, hydraulic modeling, coastal ocean modeling, stormwater management, and watershed management.

The PhD in Civil Engineering is a research-oriented degree that requires course work combined with intensive research. The program requires a minimum of 72 credit hours beyond the bachelor's degree. Thirty of the 72 credit hours can be met with either a nonthesis or thesis MS in Civil Engineering. This leaves 42 credit hours, of which 18 credit hours must be Dissertation Research and a minimum of 15 credit hours must be formal course work. A maximum of 9 credit hours of Doctoral Research hours can be used in the doctoral program, which could be replaced by additional formal course work.

For students not having an MS degree who directly enter the PhD program (BS to PhD), there will be a minimum of 45 hours formal course work (i.e., 30 credit hours identical to the course work for a nonthesis MS in any of the Civil Engineering focus areas plus a minimum of 15 credit hours course work past the MS). In addition, these students can enroll for Doctoral Research credit hours during or after their first semester in the program. The 27 credit hours required in addition to the 45 credit hours course work will be 18 credit hours in Dissertation Research, and a maximum of 9 credit hours in Doctoral Research. Up to 9 credit hours of Doctoral Research can be replaced by additional formal course work subject to the approval of the PhD adviser and the advisory committee.

For both MS to PhD and BS to PhD students, the program of study must be developed with an advisory committee and meet with departmental approval at the beginning of the PhD program, at which time transfer credit will be evaluated on a course-by-course basis.

**Total Credit Hours Required:** 72 Credit Hours Minimum beyond the Bachelor's Degree 42 Credit Hours Minimum beyond the Master's Degree

**Program Prerequisites**

Master's or bachelor's degree in Civil Engineering or a closely related discipline.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Master's or bachelor's degree in Civil Engineering or a closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research program.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-5692
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Elective Courses (See Program Details Below for Further Info)
54 Total Credits

- Earn at least 54 credits from the following:
  - CEG5405 - Seepage in Soils (3)
  - CEG6065 - Soil Dynamics (3)
  - CEG6115 - Foundation Engineering (3)
  - CEG6317 - Advanced Geotechnical Engineering (3)
  - CEG6515 - Retaining Structures and Slope Stability (3)
  - CEG6610 - Smart Underground Structures: Tunnels and Shafts (3)
  - Course Not Found
  - CGN5506 - Advanced Pavement and Civil Engineering Materials (3)
  - TTE5835 - Pavement Engineering (3)
  - CES5144 - Matrix Methods for Structural Analysis (3)
  - CES5325 - Bridge Engineering (3)
  - CES5325 - Bridge Engineering (3)
  - CES5606 - Advanced Steel Structures (3)
  - CES5706 - Advanced Reinforced Concrete (3)
  - CES5821 - Masonry and Timber Design (3)
  - CES6010 - Structural Reliability (3)
  - CES6116 - Finite Element Structural Analysis (3)
  - CES6209 - Dynamics of Structures (3)
  - CES6220 - Wind and Earthquake Engineering (3)
  - CES6230 - Advanced Structural Mechanics (3)
  - CES6527 - Nonlinear Structural Analysis (3)
  - CES6715 - Prestressed Concrete Structures (3)
  - Course Not Found
  - CGN6655 - Regional Planning, Design, and Development (3)
  - ESI5219 - Engineering Statistics (3)
  - STA5206 - Statistical Analysis (3)
  - TTE5204 - Traffic Engineering (3)
  - TTE5805 - Geometric Design of Transportation Systems (3)
  - TTE5835 - Pavement Engineering (3)
  - TTE6205 - Highway Capacity (3)
  - TTE6256 - Traffic Operations (3)
  - TTE6270 - Intelligent Transportation Systems (3)
  - TTE6275 - Connected and Autonomous Vehicles (3)
  - TTE6315 - Traffic Safety Analysis (3)
  - TTE6526 - Planning and Design of Airports (3)
  - TTE6625 - Mass Transportation Systems (3)
  - TTE6667 - Discrete Choice Modeling in Transportation (3)
  - CWR5125 - Groundwater Hydrology (3)
  - CWR5205 - Hydraulic Engineering (3)
  - CWR5515 - Numerical Methods in Civil and Environmental Engineering (3)
  - CWR5545 - Water Resources Engineering (3)
  - CWR5634 - Water Resources in a Changing Environment (3)
  - CWR5935 - Water First Seminar Series
  - CWR5999 - Coastal Systems Analysis (3)
  - CWR6007 - Ecohydraulics (3)
  - CWR6102 - Advanced Hydrology (3)
  - CWR6126 - Groundwater Modeling (3)
- CWR6235 - Open Channel Hydraulics (3)
- CWR6236 - River Engineering and Sediment Transport (3)
- CWR6535 - Modeling Water Resources Systems (3)
- CWR6539 - Finite Elements in Surface Water Modeling (3)
- CWR6606 - Stochastic River Network Hydro-Geomorphology (3)
- CWR6660 - Water Policy, Planning and Governance (3)
- CCE5006 - Infrastructure Systems Management (3)
- CCE5205 - Decision Support for Infrastructure Projects (3)
- CCE5220 - Sustainable Infrastructure Systems (3)
- CCE6036 - Advanced Construction Planning and Control (3)
- CCE6045 - Cost Analysis of Sustainable Infrastructure Systems (3)
- CCE6211 - Design and Monitoring of Construction Processes (3)
- CCE6817 - Dynamics of Sustainable Systems (3)
- CCE5220 - Sustainable Infrastructure Systems (3)
- CCE5220 - Sustainable Infrastructure Systems (3)
- CES6876 - Smart City Built Infrastructure (3)
- CGN5340 - Internet of Things: Applications in Smart Cities (3)
- CGN5341 - Interdisciplinary Introduction to Smart Cities' Applications (3)
- CGN6342 - Modeling Human Behavior with Emerging Data (3)
- CGN6343 - Cyber-Physical Systems and Smart Cities (3)
- ENV6128 - Smart Air Quality Monitoring and Air Pollution Control (3)
- ENV6533 - Smart Water and Wastewater Management (3)
- STA5703 - Data Mining Methodology I (3)
- TTE5531 - Active Mobility and Technologies: Synergy and Challenges (3)
- TTE5532 - Policy Aspects of Smart City Transportation (3)
- TTE6275 - Connected and Autonomous Vehicles (3)
- TTE6533 - Mobility in Smart Cities: Technologies and Application Areas (3)
- TTE6608 - Algorithms and Models for Smart Cities (3)

Dissertation
18 Total Credits

- Earn at least 18 credits from the following types of courses:
  XXX 7980 (where XXX can be CGN, CCE, CEG, CES, CWR, or TTE; 18 credit hours)

Examinations
0 Total Credits

- The student must pass three examinations.

Qualifying Examination
0 Total Credits

- The first is the PhD Qualifying Examination in one of the departmental disciplines. This written examination must be taken within the first year of admission into the PhD program. It may be attempted no more than twice.

Candidacy Examination
0 Total Credits

- The student must pass a Candidacy Examination, normally taken near the end of the course work. It consists of a written and oral presentation of a research proposal, and may include additional written or oral questioning by the committee. A copy of the written examination will be kept as part of the student's official record.

Admission to Candidacy
0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours. Evidence that items have been completed must be received by the College of Graduate Studies on the Friday before the first day of classes for those who wish to enroll in dissertation hours in that semester: Completion of all but 6 hours or less of course work, except for dissertation hours. Successful completion of the candidacy examination. Successful defense of the written dissertation proposal. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study.

Dissertation Defense Examination
0 Total Credits

- The Dissertation Defense Examination is an oral examination taken as defense of the written dissertation. The College of Engineering and Computer Science requires that all dissertation defense announcements be approved by the student's adviser and posted on the college's website and on the College of Graduate Studies Events Calendar at least two weeks before the defense date.

Grand Total Credits: 72

Program Details

Elective Courses
To be approved by a faculty adviser and the graduate coordinator.

At least 27 credit hours of formal course work is required, exclusive of research and independent study. For students entering the program with a completed master's degree, at least 15 of the 27 credit hours (exclusive of independent study and research) must be taken at UCF after the master's program from approved formal courses. For students entering the program without a master's degree in Civil Engineering or a closely related discipline, at least 45 credit hours of formal course work are required.

Doctoral Research (XXX 7919) - 9 credit hours maximum (more than 9 research credit hours can be taken, but only a maximum of 9 credit hours will be counted toward the program of study).

Independent Study (XXX 6908) - 3 credit hours maximum

No more than a total of 12 credit hours of doctoral research plus independent study will be included in a program of study.

Directed Research (XXX 6918) is not permitted in a PhD program of study.

Students can choose among the following courses with the consent of the academic adviser. Students that have no MS degree should complete the core courses for the MS degree in the respective focus area. These focus areas are: Structural and Geotechnical Engineering, Transportation Systems Engineering, Water Resources Engineering, and Smart Cities. For each one of these areas there is a suggested list of core courses.

Suggested elective courses include:

**Geotechnical Engineering**
- CEG 5405 - Seepage in Soils 3 Credit Hours
- CEG 6065 - Soil Dynamics 3 Credit Hours
- CEG 6115 - Foundation Engineering 3 Credit Hours
- CEG 6317 - Advanced Geotechnical Engineering 3 Credit Hours
- CEG 6515 - Retaining Structures and Slope Stability 3 Credit Hours
- CEG 6610 - Smart Underground Structures: Tunnels and Shafts 3 Credit Hours
- CES 6170 - Boundary Element Methods in Civil Engineering 3 Credit Hours
- CGN 5506 - Advanced Pavement and Civil Engineering Materials 3 Credit Hours
- TTE 5835 - Pavement Engineering 3 Credit Hours

**Structural Engineering**
- CES 5144 - Matrix Methods for Structural Analysis 3 Credit Hours
- CES 5325 - Bridge Engineering 3 Credit Hours
- CES 5606 - Advanced Steel Structures 3 Credit Hours
- CES 5706 - Advanced Reinforced Concrete 3 Credit Hours
- CES 5821 - Masonry and Timber Design 3 Credit Hours
- CES 6010 - Structural Reliability 3 Credit Hours
- CES 6116 - Finite Element Structural Analysis 3 Credit Hours
- CES 6209 - Dynamics of Structures 3 Credit Hours
- CES 6220 - Wind and Earthquake Engineering 3 Credit Hours
- CES 6230 - Advanced Structural Mechanics 3 Credit Hours
- CES 6527 - Nonlinear Structural Analysis 3 Credit Hours
- CES 6715 - Prestressed Concrete Structures 3 Credit Hours
- CES 6840 - Composite Steel Concrete Structures 3 Credit Hours

**Transportation Systems Engineering**
- CGN 6655 - Regional Planning, Design, and Development 3 Credit Hours
- ESI 5219 - Engineering Statistics 3 Credit Hours
- STA 5206 - Statistical Analysis 3 Credit Hours or
- TTE 5204 - Traffic Engineering 3 Credit Hours
- TTE 5805 - Geometric Design of Transportation Systems 3 Credit Hours
- TTE 5835 - Pavement Engineering 3 Credit Hours
- TTE 6205 - Highway Capacity 3 Credit Hours
- TTE 6256 - Traffic Operations 3 Credit Hours
- TTE 6270 - Intelligent Transportation Systems 3 Credit Hours
- TTE 6275 - Connected and Autonomous Vehicles 3 Credit Hours
- TTE 6315 - Traffic Safety Analysis 3 Credit Hours
- TTE 6526 - Planning and Design of Airports 3 Credit Hours
- TTE 6625 - Mass Transportation Systems 3 Credit Hours
- TTE 6667 - Discrete Choice Modeling in Transportation 3 Credit Hours

**Water Resources Engineering**
- CWR 5125 - Groundwater Hydrology 3 Credit Hours
- CWR 5205 - Hydraulic Engineering 3 Credit Hours
- CWR 5515 - Numerical Methods in Civil and Environmental Engineering 3 Credit Hours
- CWR 5545 - Water Resources Engineering 3 Credit Hours
- CWR 5634 - Water Resources in a Changing Environment 3 Credit Hours
- CWR 5935 - Water First Seminar Series 0 Credit Hours
- CWR 5999 - Coastal Systems Analysis 3 Credit Hours
- CWR 6007 - Ecohydraulics 3 Credit Hours
- CWR 6102 - Advanced Hydrology 3 Credit Hours

2021-2022 Graduate Catalog
CWR 6126 - Groundwater Modeling 3 Credit Hours
CWR 6235 - Open Channel Hydraulics 3 Credit Hours
CWR 6236 - River Engineering and Sediment Transport 3 Credit Hours
CWR 6535 - Modeling Water Resources Systems 3 Credit Hours
CWR 6539 - Finite Elements in Surface Water Modeling 3 Credit Hours
CWR 6606 - Stochastic River Network Hydro-Geomorphology 3 Credit Hours
CWR 6660 - Water Policy, Planning and Governance 3 Credit Hours

Construction Engineering and Management

Students are also allowed to take courses from other specialization areas. Students can take courses from Civil Engineering or Environmental Engineering and other departments, including but not limited to Statistics, Mathematics, and Industrial, Mechanical, and/or Electrical Engineering, and Computer Science, with the consent of the academic adviser.

- CCE 5006 - Infrastructure Systems Management 3 Credit Hours
- CCE 5205 - Decision Support for Infrastructure Projects 3 Credit Hours
- CCE 5220 - Sustainable Infrastructure Systems 3 Credit Hours
- CCE 6036 - Advanced Construction Planning and Control 3 Credit Hours
- CCE 6045 - Cost Analysis of Sustainable Infrastructure Systems 3 Credit Hours
- CCE 6211 - Design and Monitoring of Construction Processes 3 Credit Hours
- CCE 6817 - Dynamics of Sustainable Systems 3 Credit Hours

Smart Cities

- CCE 5220 - Sustainable Infrastructure Systems 3 Credit Hours
- CEG 6610 - Smart Underground Structures: Tunnels and Shafts 3 Credit Hours
- CES 6876 - Smart City Built Infrastructure 3 Credit Hours
- CGN 5340 - Internet of Things: Applications in Smart Cities 3 Credit Hours
- CGN 5341 - Interdisciplinary Introduction to Smart Cities’ Applications 3 Credit Hours
- CGN 5617 - Infrastructure Systems Optimization and Identification 3 Credit Hours
- CGN 6342 - Modeling Human Behavior with Emerging Data 3 Credit Hours
- CGN 6343 - Cyber-Physical Systems and Smart Cities 3 Credit Hours
- ENV 6128 - Smart Air Quality Monitoring and Air Pollution Control 3 Credit Hours
- ENV 6533 - Smart Water and Wastewater Management 3 Credit Hours
- STA 5703 - Data Mining Methodology 3 Credit Hours
- TTE 5531 - Active Mobility and Technologies: Synergy and Challenges 3 Credit Hours
- TTE 5532 - Policy Aspects of Smart City Transportation 3 Credit Hours
- TTE 6275 - Connected and Autonomous Vehicles 3 Credit Hours
- TTE 6533 - Mobility in Smart Cities: Technologies and Application Areas 3 Credit Hours
- TTE 6608 - Algorithms and Models for Smart Cities 3 Credit Hours

Equipment Fee

Students in the Civil Engineering PhD program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of the student's candidacy and dissertation defense examinations.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

2021-2022 Graduate Catalog
Computer Engineering MSCpE

College
College of Engineering and Computer Science

Department
Department of Electrical and Computer Engineering

Program Website
http://www.ece.ucf.edu/

Program Handbook
Computer Engineering MSCpE

Program Contact Information
Kalpathy Sundaram PhD
Professor
ece-grad@cecs.ucf.edu
Telephone: 407-823-5326
HEC 439B

Is this program available 100% online?
No

Licensure Disclosure
This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Computer-Engineering-MS.pdf.

Program Description
The Computer Engineering MSCpE degree offers programs in a number of technical (research) areas, such as Computer Networks and Computer Security (CNCS), Computer Systems and VLSI Design (CS/VLSI), Intelligent Systems and Machine Learning (ISML), and Software Systems and Algorithms (SSA).

All programs offer a thesis option and a nonthesis option, as well as an Accelerated BS to MS program. Please scroll to the bottom of this page for further details on the Accelerated Track.

Students in the program receive a broad background in the various technical areas while specializing in a research area of their interest.

The specific research areas that each one of the EE faculty focuses on can be found at the Department of Electrical Engineering website (www.ece.ucf.edu/).

The master's program offers both thesis and nonthesis options in four technical specialization areas. The thesis option requires 30 credit hours of courses that includes 24 credit hours of formal coursework, exclusive of thesis and research, plus 6 credit hours of thesis. The nonthesis option requires 30 credit hours of coursework with at least 24 credit hours of formal coursework and a possibility of 6 credit hours of Independent Study (XXX 6908) based on the availability of interested faculty.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree
Program Prerequisites

A bachelor's degree in computer engineering or a closely related discipline.

Articulation Courses

Undergraduate articulation courses are required for students with bachelor's degrees in fields other than Computer Engineering. In general, all students must have completed the following undergraduate courses (or their equivalents in an accredited BSCpE program) before admission to our graduate program. Students who have taken these courses must complete the articulation courses listed below, plus all prerequisites, that they require. Grades of "B" or higher must be obtained in each articulation course. Articulation courses are not eligible for inclusion on a student's Graduate Program of Study.

- EEE 3342C: Digital Systems
- EEL 3801: Computer Organization
- COP 3502: Computer Science I
- COP 3503: Computer Science II

Plus choose ONE of the following:

- COP 4331: Processes for Object-Oriented Development
- EEL 4768C: Computer Architecture
- EEL 4781: Computer Communications Networks

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in computer engineering or a closely related discipline.
- The GRE is not required for admission to this program.
- Two letters of recommendation.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research program. Additional courses may also be required to correct any course deficiencies. Students should contact the graduate program director for further information.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Computer Engineering MSCpE</th>
<th>*Fall Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic Applicants</td>
<td>Jan 15</td>
</tr>
<tr>
<td>International Applicants</td>
<td>Jan 15</td>
</tr>
</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Elective Courses
24 Total Credits

- There are no required courses within a specialization area. However, all students (thesis and nonthesis) must choose at least 24 credit hours of formal courses, excluding research-related courses and independent study (XXX 6908), which emphasize their specialization area. Courses from outside specialization areas could also be chosen if the student's adviser approves such a Program of Study. The Program of Study (POS) form must be approved by an adviser in the selected specialization area no later than the end of the second semester after admission. The program of study must meet all the university requirements specified in the graduate catalog and must also receive departmental-level and college-level approval.

Specialization Areas
24 Total Credits

- Complete 1 of the following
  - The Computer Engineering Program supports a number of specialization areas. These specialization areas are (in alphabetical order): Computer Networks and Computer Security (CNCS), Computer Systems and VLSI Design (CS/VLSI), Intelligent Systems and Machine Learning (ISML), and Software Systems and Algorithms (SSA). In each one of these areas there is a suggested list of courses. Students are also allowed to take courses from the suggested list of courses in areas other than their specialization area, but the majority of their courses should be chosen from courses in their specialization area.
  - Computer Networks and Computer Security (CNCS)
    - Earn at least 24 credits from the following:
      - CDA5106 - Advanced Computer Architecture (3)
      - CDA5110 - Parallel Architecture and Algorithms (3)
      - CDA6530 - Performance Models of Computers and Networks (3)
      - CGS5131 - Computer Forensics I: Seizure and Examination of Computer Systems (3)
      - CNT5008 - Computer Communication Networks Architecture (3)
      - CNT6418 - Computer Forensics II (3)
      - CNT6519 - Wireless Security and Forensics (3)
      - CNT6707 - Advanced Computer Networks (3)
      - COP5537 - Network Optimization (3)
      - COP5611 - Operating Systems Design Principles (3)
      - CAP6133 - Advanced Topics in Computer Security and Computer Forensics (3)
      - CAP6135 - Malware and Software Vulnerability Analysis (3)
      - COT5405 - Design and Analysis of Algorithms (3)
      - EEE5542 - Random Processes I (3)
      - EEL5780 - Wireless Networks (3)
      - EEL6762 - Performance Analysis of Computer and Communication Systems (3)
      - EEL6785 - Computer Network Design (3)
      - EEL6788 - Advanced Topics in Computer Networks (3)
      - EEL6883 - Software Engineering II (3)
  - Computer Systems and Very Large Scale Integration (CS/VLSI)
    - Earn at least 24 credits from the following:
      - CDA5106 - Advanced Computer Architecture (3)
      - CDA5110 - Parallel Architecture and Algorithms (3)
      - CDA6107 - Parallel Computer Architecture (3)
      - CDA6938 - Special Topics (3)
      - COP5537 - Network Optimization (3)
      - EEE5390C - Full-Custom VLSI Design (3)
      - EEL5722C - Field-Programmable Gate Array (FPGA) Design (3)
Intelligent Systems and Machine Learning (ISML)

- Earn at least 24 credits from the following:
  - CAP5055 - AI for Game Programming (3)
  - CAP5512 - Evolutionary Computation (3)
  - CAP5610 - Machine Learning (3)
  - CAP5636 - Advanced Artificial Intelligence (3)
  - CAP6545 - Machine Learning Methods for Biomedical Data (3)
  - CAP6616 - Neuroevolution and Generative and Developmental Systems (3)
  - CAP6640 - Computer Understanding of Natural Language (3)
  - CAP6671 - Intelligent Systems: Robots, Agents, and Humans (3)
  - CAP6675 - Complex Adaptive Systems (3)
  - CAP6676 - Knowledge Representation (3)
  - EEL5825 - Pattern Recognition and Learning from Big Data (3)
  - EEL5874 - Expert Systems and Knowledge Engineering (3)
  - EEL6812 - Introduction to Neural Networks (3)
  - EEL6875 - Autonomous Agents (3)
  - EEL6878 - Modeling and Artificial Intelligence (3)

Software Systems and Algorithms (SSA)

- Earn at least 24 credits from the following:
  - CAP6515 - Algorithms in Computational Biology (3)
  - CGS5131 - Computer Forensics I: Seizure and Examination of Computer Systems (3)
  - CNT6418 - Computer Forensics II (3)
  - CAP5510 - Bioinformatics (3)
  - CAP6133 - Advanced Topics in Computer Security and Computer Forensics (3)
  - CAP6545 - Machine Learning Methods for Biomedical Data (3)
  - CEN5016 - Software Engineering (3)
  - CEN6075 - Formal Specification of Software Systems (3)
  - COP5021 - Program Analysis (3)
  - COP5711 - Parallel and Distributed Database Systems (3)
  - COP6730 - Transaction Processing (3)
  - COP6731 - Advanced Database Systems (3)
  - COT5405 - Design and Analysis of Algorithms (3)
  - COT6410 - Computational Complexity (3)
  - COT6417 - Algorithms on Strings and Sequences (3)
  - COT5600 - Quantum Computing (3)
  - COT6602 - Introduction to Quantum Information Theory (3)
  - EEL6883 - Software Engineering II (3)

Thesis/Nonthesis Option

6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - EEL 6971 Thesis The thesis option requires 24 credit hours of formal coursework in one of the specialization areas and the completion of 6 credit hours of thesis. Additional requirements are as follows: - Courses must be chosen from the suggested list of courses for the student's chosen specialization area - No more than 6 credits of thesis (XXX 6971) will be counted toward the degree requirement - Fifteen credit hours (including EEL 6971 Thesis) must be 6000-level courses - Thesis students who are full time must continue to enroll in three credit hours of thesis coursework each semester until the thesis requirement is satisfied, even if they take more than the required 6 credit hours of thesis. However, only 6 credit hours of thesis will count toward the degree requirement. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
      - Nonthesis Option
    - Earn at least 6 credits from the following types of courses:
      - Additional Electives from the list above. The nonthesis option is especially suitable for part-time students. Nonthesis students must complete 6 credit hours of electives in addition to the 24 credit hours of formal coursework described above. If desired by the student and approved by the student's adviser a total of 6 credit hours can be Independent Study (XXX 6908).

Portfolio Requirement

0 Total Credits

- Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of their portfolio of activities by the course Withdrawal Date of the semester prior to their intended graduation. The portfolio requirements are listed on the EECS website at www.eecs.ucf.edu.

Grand Total Credits: 30
Program Details

Transfer Credits

Graduate students with a bachelor's degree in Computer Engineering from UCF may transfer up to 9 credit hours of 5000-level or higher coursework, with grades of "B" or higher, toward the MSCpE degree. Alternatively, a maximum of 9 credit hours may be transferred of graduate work conducted elsewhere from an accredited institution.

Equipment Fee

Students in the Computer Engineering MSCpE program pay a $28 equipment fee each semester that they are enrolled. Part-time students pay $14 per semester.

Independent Learning

The independent learning requirement is met by successful completion of a master's thesis or an approved portfolio of activities for nonthesis students.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Computer Engineering MSCpE - Computer Engineering MSCpE, Accelerated BS to MSCpE Track

College

College of Engineering and Computer Science

Department

Department of Electrical and Computer Engineering

Track Website

http://www.ece.ucf.edu/

Track Contact Information

Kalpathy Sundaram PhD
Professor
ece-grad@cecs.ucf.edu
Telephone: 407-823-5326
HEC 439B

Is this track available 100% online?

No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Computer-Engineering-MS.pdf.

2021-2022 Graduate Catalog
Track Description

The Computer Engineering MSCpE degree offers programs in a number of technical (research) areas, such as Computer Networks and Computer Security (CNCS), Computer Systems and VLSI Design (CS/VLSI), Intelligent Systems and Machine Learning (ISML), and Software Systems and Algorithms (SSA).

All programs offer a thesis option and a nonthesis option, as well as an Accelerated BS to MS program. Students in the program receive a broad background in the various technical areas, while specializing in a research area of their interest.

The specific research areas that each one of the EE faculty focuses on can be found at the Department of Electrical Engineering website (www.ece.ucf.edu).

The master's program offers both thesis and nonthesis options in four technical specialization areas. The thesis option requires 30 credit hours of courses that includes 24 credit hours of formal coursework, exclusive of thesis and research, plus 6 credit hours of thesis. The nonthesis option requires 30 credit hours of coursework with at least 24 credit hours of formal coursework and a possibility of 6 credit hours of Independent Study (XXX 6908) based on the availability of interested faculty.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

A bachelor's degree in computer engineering or a closely related discipline. This track is available to University of Central Florida undergraduates.

In general, all students must have completed the following undergraduate courses (or their equivalents in an accredited BSCpE program) before admission to our graduate program. Students who have taken these courses must complete the articulation courses listed below, plus all prerequisites, that they require. Grades of "B" or higher must be obtained in each articulation course. Articulation courses are not eligible for inclusion on a student's Graduate Program of Study.

- EEE 3342C: Digital Systems
- EEL 3801: Computer Organization
- COP 3502: Computer Science I
- COP 3503: Computer Science II

Plus choose ONE of the following:

- COP 4331: Processes for Object-Oriented Development
- EEL 4768C: Computer Architecture
- EEL 4781: Computer Communications Networks

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in computer engineering or a closely related discipline. This track is available to University of Central Florida undergraduates.
- The GRE is not required for admission to this program.
- Two letters of recommendation.
- Résumé.
- Statement of educational, research, and professional career objectives.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research program.

Additional courses may also be required to correct any course deficiencies. Students should contact the graduate program director for further information.

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
There are no required courses within a specialization area. However, all students (thesis and non-thesis) must choose at least 24 credit hours of formal courses, excluding research-related courses and independent study (XXX 6908), which emphasize their specialization area. Courses from outside specialization areas could also be chosen if the student's advisor approves such a Program of Study. The Program of Study (POS) form must be approved by an advisor in the selected specialization area no later than the end of the second semester after admission. The program of study must meet all the university requirements specified in the graduate catalog and must also receive departmental-level and college-level approval.

Specialization Areas
24 Total Credits

- Complete 1 of the following

  - The Computer Engineering Program supports a number of specialization areas. These specialization areas are (in alphabetical order): Computer Networks and Computer Security (CNCS), Computer Systems and VLSI Design (CS/VLSI), Intelligent Systems and Machine Learning (ISML), and Software Systems and Algorithms (SSA). In each one of these areas there is a suggested list of courses. Students are also allowed to take courses from the suggested list of courses in areas other than their specialization area, but the majority of their courses should be chosen from courses in their specialization area.

  - Computer Networks and Computer Security (CNCS)

  - Earn at least 24 credits from the following:

    - CDA5106 - Advanced Computer Architecture (3)
    - CDA5110 - Parallel Architecture and Algorithms (3)
    - CDA6530 - Performance Models of Computers and Networks (3)
    - CGS5131 - Computer Forensics I: Seizure and Examination of Computer Systems (3)
    - CNT5008 - Computer Communication Networks Architecture (3)
    - CNT6418 - Computer Forensics II (3)
    - CNT6519 - Wireless Security and Forensics (3)
    - CNT6707 - Advanced Computer Networks (3)
    - COP5537 - Network Optimization (3)
    - COT5405 - Design and Analysis of Algorithms (3)
    - EEE5542 - Random Processes I (3)
    - EEL5780 - Wireless Networks (3)
    - EEL6762 - Performance Analysis of Computer and Communication Systems (3)
    - EEL6785 - Computer Network Design (3)
    - EEL6788 - Advanced Topics in Computer Networks (3)
    - EEL6883 - Software Engineering II (3)

  - Computer Systems and Very Large Scale Integration (CS/VLSI)

  - Earn at least 24 credits from the following:

    - CDA5106 - Advanced Computer Architecture (3)
    - CDA5110 - Parallel Architecture and Algorithms (3)
    - CDA6107 - Parallel Computer Architecture (3)
    - CDA6938 - Special Topics (3)
    - COP5537 - Network Optimization (3)
    - EEE5390C - Full-Custom VLSI Design (3)
    - EEL5722C - Field-Programmable Gate Array (FPGA) Design (3)
- EEL6762 - Performance Analysis of Computer and Communication Systems (3)
- EEE6327 - Design of Video Coding Systems (3)
- ECM6308 - Current Topics in Parallel Processing (3)

Intelligent Systems and Machine Learning (ISML)
- Earn at least 24 credits from the following:
  - CAP5055 - AI for Game Programming (3)
  - CAP5512 - Evolutionary Computation (3)
  - CAP5610 - Machine Learning (3)
  - CAP5636 - Advanced Artificial Intelligence (3)
  - CAP6545 - Machine Learning Methods for Biomedical Data (3)
  - CAP6616 - Neuroevolution and Generative and Developmental Systems (3)
  - CAP6640 - Computer Understanding of Natural Language (3)
  - CAP6671 - Intelligent Systems: Robots, Agents, and Humans (3)
  - CAP6675 - Complex Adaptive Systems (3)
  - CAP6676 - Knowledge Representation (3)
  - EEL5825 - Pattern Recognition and Learning from Big Data (3)
  - EEL5874 - Expert Systems and Knowledge Engineering (3)
  - EEL6812 - Introduction to Neural Networks (3)
  - EEL6875 - Autonomous Agents (3)
  - EEL6878 - Modeling and Artificial Intelligence (3)

Software Systems and Algorithms (SSA)
- Earn at least 24 credits from the following:
  - CAP6515 - Algorithms in Computational Biology (3)
  - CGS5131 - Computer Forensics I: Seizure and Examination of Computer Systems (3)
  - CNT6418 - Computer Forensics II (3)
  - CAP5510 - Bioinformatics (3)
  - CAP6133 - Advanced Topics in Computer Security and Computer Forensics (3)
  - CAP6545 - Machine Learning Methods for Biomedical Data (3)
  - CEN5016 - Software Engineering (3)
  - CEN6075 - Formal Specification of Software Systems (3)
  - COP5021 - Program Analysis (3)
  - COP5711 - Parallel and Distributed Database Systems (3)
  - COP6730 - Transaction Processing (3)
  - COP6731 - Advanced Database Systems (3)
  - COT5405 - Design and Analysis of Algorithms (3)
  - COT6410 - Computational Complexity (3)
  - COT6417 - Algorithms on Strings and Sequences (3)
  - COT5600 - Quantum Computing (3)
  - COT6602 - Introduction to Quantum Information Theory (3)
  - EEL6883 - Software Engineering II (3)

Thesis/Nonthesis Option
6 Total Credits
- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - EEL 6971 Thesis The thesis option requires 24 credit hours of formal coursework in one of the specialization areas and the completion of 6 credit hours of thesis. Additional requirements are as follows: - Courses must be chosen from the suggested list of courses for the student's chosen specialization area - No more than 6 credits of thesis (XXX 6971) will be counted toward the degree requirement - Fifteen credit hours (including EEL 6971 Thesis) must be 6000-level courses - Thesis students who are full time must continue to enroll in three credit hours of thesis coursework each semester until the thesis requirement is satisfied, even if they take more than the required 6 credit hours of thesis. However, only 6 credit hours of thesis will count toward the degree requirement. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
    - Nonthesis Option
      - Earn at least 6 credits from the following types of courses:
        - Additional Electives from the list above. The nonthesis option is especially suitable for part-time students. Nonthesis students must complete 6 credit hours of electives in addition to the 24 credit hours of formal coursework described above. If desired by the student and approved by the student's adviser a total of 6 credit hours can be Independent Study (XXX 6908).

Portfolio Requirement
0 Total Credits
- Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of their portfolio of activities by the course Withdrawal Date of the semester prior to their intended graduation. The portfolio requirements are listed on the EECS website at www.eecs.ucf.edu.

Grand Total Credits: 30
**Track Details**

The master's program offers both thesis and nonthesis options in four technical specialization areas. The thesis option requires 30 credit hours of courses that includes 24 credit hours of formal coursework, exclusive of thesis and research, plus 6 credit hours of thesis. The nontesis option requires 30 credit hours of coursework with at least 24 credit hours of formal coursework and a possibility of 6 credit hours of Independent Study (XXX 6908) based on the availability of interested faculty.

**Transfer Credits**

Graduate students with a bachelor's degree in Computer Engineering from UCF may transfer up to 9 credit hours of 5000-level or higher coursework, with grades of "B" or higher, toward the MSCpE degree. Alternatively, a maximum of 9 credit hours may be transferred of graduate work conducted elsewhere from an accredited institution.

**Equipment Fee**

Students in the Computer Engineering MSCpE program pay a $28 equipment fee each semester that they are enrolled. Part-time students pay $14 per semester.

**Independent Learning**

The independent learning requirement is met by successful completion of a master's thesis or an approved portfolio of activities for nontesis students.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120  
Telephone: 407-823-2827  
Appointment Line: 407-823-5285  
Fax: 407-823-5241  
finaid@ucf.edu  
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127  
gradfellowship@ucf.edu  
https://funding.graduate.ucf.edu

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**Computer Engineering PhD**

**College**

College of Engineering and Computer Science

**Department**

**Program Website**

http://www.ece.ucf.edu/

**Program Handbook**

Computer Engineering PhD

**Program Contact Information**

Kalpathy Sundaram PhD
Professor  
Kalpathy.Sundaram@ucf.edu  
Telephone: 407-823-5326  
HEC 439B

2021-2022 Graduate Catalog
Is this program available 100% online?

No

Program Description

The Computer Engineering PhD prepares students for careers in research or academia with a potential focus in computer systems and VLSI design, software engineering and algorithms, intelligent systems and Machine Learning, computer networks and computer security, as well as simulation systems.

The doctoral program in Computer Engineering is primarily intended for students with a master's degree in Computer Engineering or a closely related discipline wishing to pursue a career in research or academia. Specializations include computer systems and VLSI design, software engineering and algorithms, intelligent systems and Machine Learning, computer networks and computer security and simulation systems.

Research interests of the Computer Engineering faculty include computer architecture, software engineering, artificial intelligence, expert systems, modeling and simulation, computer networking and ubiquitous computing, computer security, and very large-scale integration (VLSI) systems.

The specific research that each one of the EECS faculty conduct can be found at the School of EECS website (www.eecs.ucf.edu).

The Computer Engineering PhD degree requires a minimum of 72 credit hours beyond the bachelor's degree. Of these 72 hours, a minimum of 36 credit hours must be formal coursework, exclusive of independent study coursework. A minimum of 15 credit hours with up to a maximum of 24 credit hours of dissertation hours can be credited toward the degree. No more than 12 credit hours of Independent Study are allowed. The remaining hours can be a combination of formal coursework and/or pre-candidacy doctoral research. Details about this program can be found in the Computer Engineering PhD Handbook, linked in the Program Handbook Section of this page.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Master's or bachelor's degree in Computer Engineering or a closely related discipline.

Articulation Courses

Undergraduate articulation courses are required to be completed prior to admission for students who do not hold a Bachelor of Science degree in Computer Engineering. In particular, the articulation courses specified below, plus all of the prerequisite string which any of them require, must be completed prior to admission. Grades of "B" or higher must be obtained in each articulation course specified below. Articulation courses are not eligible for inclusion on a graduate Program of Study.

- EEE 3342C Digital Systems
- EEL 3801 Computer Organization
- COP 3502 Computer Science I
- COP 3503 Computer Science II

In addition, choose one of the following:

- COP 4331 Processes for Object-Oriented Development
- EEL 4768C Computer Architecture
- EEL 4781 Computer Communications Networks

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Master's or bachelor's degree in Computer Engineering or a closely related discipline.
- Résumé
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may also be required to correct any course deficiencies. Students should contact the graduate program director for further information.

2021-2022 Graduate Catalog
Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Required Courses  
36 Total Credits

- Complete 1 of the following
  - The Computer Engineering Program supports a number of specialization areas. These specialization areas are (in alphabetical order): Computer Networks and Computer Security (CNCS), Computer Systems and Reconfigurable Hardware (CS/RH), Intelligent Systems and Machine Learning (ISML), and Software Systems and Algorithms (SSA). Please contact your graduate program assistant at 407-823-0378 for a list of faculty within each specialization area. For each one of these areas there is a suggested list of courses stated below. Students are also allowed to take courses from other specialization areas, but the majority of their courses should be chosen from courses in their specialization area.
  - Computer Networks and Computer Security (CNCS)
    - Earn at least 36 credits from the following:
      - CDA5106 - Advanced Computer Architecture (3)
      - CDA5110 - Parallel Architecture and Algorithms (3)
      - CDA6530 - Performance Models of Computers and Networks (3)
      - CDA6938 - Special Topics (3)
      - CGS5131 - Computer Forensics I: Seizure and Examination of Computer Systems (3)
      - CNT5008 - Computer Communication Networks Architecture (3)
      - CNT6418 - Computer Forensics II (3)
      - CNT6519 - Wireless Security and Forensics (3)
      - CNT6707 - Advanced Computer Networks (3)
      - COP5537 - Network Optimization (3)
      - COP5611 - Operating Systems Design Principles (3)
      - CAP6133 - Advanced Topics in Computer Security and Computer Forensics (3)
      - CAP6135 - Malware and Software Vulnerability Analysis (3)
      - COT5405 - Design and Analysis of Algorithms (3)
      - EEE5542 - Random Processes I (3)
      - EEL5780 - Wireless Networks (3)
      - EEL6762 - Performance Analysis of Computer and Communication Systems (3)
      - EEL6785 - Computer Network Design (3)
      - EEL6788 - Advanced Topics in Computer Networks (3)
      - EEL6883 - Software Engineering II (3)
  - Computer Systems and Reconfigurable Hardware (CS/RH)
    - Earn at least 36 credits from the following:
      - CDA5106 - Advanced Computer Architecture (3)
- CDAS110 - Parallel Architecture and Algorithms (3)
- CDAS6107 - Parallel Computer Architecture (3)
- CDAS6938 - Special Topics (3)
- COP5537 - Network Optimization (3)
- EEE5390C - Full-Custom VLSI Design (3)
- EEL5722C - Field-Programmable Gate Array (FPGA) Design (3)
- EEL6762 - Performance Analysis of Computer and Communication Systems (3)
- ECM6308 - Current Topics in Parallel Processing (3)

**Intelligent Systems and Machine Learning (ISML)**
- Earn at least 36 credits from the following:
  - CAP5055 - AI for Game Programming (3)
  - CAP5512 - Evolutionary Computation (3)
  - CAP5610 - Machine Learning (3)
  - CAP5636 - Advanced Artificial Intelligence (3)
  - CAP6545 - Machine Learning Methods for Biomedical Data (3)
  - CAP6616 - Neuroevolution and Generative and Developmental Systems (3)
  - CAP6640 - Computer Understanding of Natural Language (3)
  - CAP6671 - Intelligent Systems: Robots, Agents, and Humans (3)
  - CAP6675 - Autonomous Agents (3)
  - CAP6677 - Complex Adaptive Systems (3)
  - CAP6678 - Modeling and Artificial Intelligence (3)

**Software Systems and Algorithms (SSA)**
- Earn at least 36 credits from the following:
  - CAP6515 - Algorithms in Computational Biology (3)
  - CGS5131 - Computer Forensics I: Seizure and Examination of Computer Systems (3)
  - CNT6418 - Computer Forensics II (3)
  - CAP5510 - Bioinformatics (3)
  - CAP6133 - Advanced Topics in Computer Security and Computer Forensics (3)
  - CAP6545 - Machine Learning Methods for Biomedical Data (3)
  - CEN5016 - Software Engineering (3)
  - CEN6075 - Formal Specification of Software Systems (3)
  - COP5021 - Program Analysis (3)
  - COP5711 - Parallel and Distributed Database Systems (3)
  - COP6730 - Transaction Processing (3)
  - COP6731 - Advanced Database Systems (3)
  - COT5405 - Design and Analysis of Algorithms (3)
  - COT6410 - Computational Complexity (3)
  - COT6417 - Algorithms on Strings and Sequences (3)
  - COT5600 - Quantum Computing (3)
  - COT6602 - Introduction to Quantum Information Theory (3)
  - EEL6883 - Software Engineering II (3)

**Elective Courses**

**21 Total Credits**
- Earn at least 21 credits from the following types of courses:
  - Additional elective courses listed above. May include formal coursework, directed research hours, doctoral research hours, dissertation research, and no more than 12 credit hours of Independent Study.

**Dissertation**

**15 Total Credits**
- Earn at least 15 credits from the following types of courses:
  - XXX 7980 Dissertation Research (15 credit hours minimum). The program will only allow students to complete up to 24 hours of dissertation coursework in XXX 7980. The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the student's adviser and posted on the college's website at least two weeks before the defense date.

**Qualifying Review**

**0 Total Credits**
- The Qualifying Review relies on annual appraisals of the student's progress conducted by the student's research/academic adviser and advisory committee, once formed. The student's appraisal template that the adviser completes will assess the student's academic performance (course performance) and research performance. On an annual basis, and based on the completed PhD Student Annual Review template, as well as additional student documentation attached with approval of the adviser, the EECS Graduate Committee will rate the student's performance as "Above Expectation," "At Expectation," or "Below Expectation" toward the completion of the PhD degree. Students must pass the Qualifying Review no later than the deadline, which is the semester in which they complete 24 credit hours after admission or within two calendar years after admission, whichever occurs later. If a student has passed the Qualifying Review, then the student is eligible to continue PhD.
studies. However, a student who does not pass the Qualifying Review by the deadline will be dismissed from the degree program and will be given the opportunity to complete a master’s degree (if applicable).

Dissertation Committee

0 Total Credits

- PhD dissertation committees for this degree program must have all of the below characteristics: - consist of at least five committee members including the committee chair - the committee chair must be either a Regular Appointment faculty member in EECS or a Secondary-Joint Appointment faculty member in EECS - at least 50% of committee members (when tabulated including the chair) must be EECS regular faculty - the majority of committee members must vote in favor of passing for the student to Pass - in addition to the above, all college and university requirements (such as one member outside of EECS) must be met. Joint faculty members may serve as committee chairs, but graduate faculty scholars may not serve as committee chairs.

Candidacy Examination

0 Total Credits

- After passing the Qualifying Review, students are required to successfully complete the candidacy examination in order to demonstrate readiness for preliminary research in a chosen field of study. This exam is administered by the student's dissertation advisory committee. Preparedness for taking the candidacy examination requires that the student must demonstrate his/her readiness for the PhD program in Computer Engineering by authoring an accepted journal article or high-quality conference paper. The student must be the first author on this paper and the research advisor must also be an author on this paper to be used for Candidacy. The publication should reflect the work related to the student’s PhD research. Candidacy is normally attempted at the completion of required coursework and must be passed before registering for doctoral dissertation hours (EEL 7980). Continuous enrollment in at least 3 hours of doctoral dissertation hours is required once a student starts taking dissertation credits.

Admission to Candidacy

0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours. - Completion of all required formal coursework, except for dissertation hours. - Successful completion of the candidacy examination. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Submittal of an approved program of study. Signed and well-formed Doctoral Committee Candidacy Status form and associated paperwork must be submitted to the Electrical and Computer Engineering Graduate Office for processing on or before the last day to defend Dissertation during the semester prior to enrolling in dissertation credits.

Dissertation Proposal Exam

0 Total Credits

- After passing the candidacy examination, the student will write a dissertation proposal and present it to the dissertation advisory committee for approval. The proposal must include a description of the research performed to date and the research planned to be completed for the dissertation. The presentation of a written dissertation proposal must be deemed as passing requirements by the majority of the dissertation committee.

Grand Total Credits: 72

Program Details

Formal coursework required is 36 credit hours, exclusive of independent study and research. A minimum of 15 credit hours of dissertation are required. All other credit hours will be determined with a faculty adviser. Students admitted with an earned master’s degree may request to have up to 30 of those credit hours counted toward their doctoral program. The student's doctoral adviser in conjunction with the graduate office will determine the precise number of hours to be counted subject to Graduate Studies regulations.

The Program of Study (POS) form must be approved by an adviser in the selected specialization area no later than the end of the second semester after admission. The program of study must meet all the university requirements specified in the graduate catalog.

Equipment Fee

Students in the Computer Engineering PhD program pay a $28 equipment fee each semester that they are enrolled. Part-time students pay $14 per semester.

Independent Learning

The Independent Learning requirement is met by successful completion of the student's candidacy and dissertation defense examinations.
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Computer Forensics Graduate Certificate

College
College of Engineering and Computer Science

Department
Department of Computer Science

Program Website
http://gccf.ucf.edu/

Program Contact Information
Cliff Zou PhD
Associate Professor
CZou@cs.ucf.edu
Telephone: 407-823-5015
HEC 243

Is this program available 100% online?
No

Program Description
The Graduate Certificate in Computer Forensics provides a unique graduate training opportunity for those who deal directly or indirectly with digital evidence.

The National Center for Forensic Science (NCFS), the School of Electrical Engineering and Computer Science, and the Department of Chemistry jointly sponsor an interdisciplinary Graduate Certificate in Computer Forensics. This web-assisted certificate program provides a unique opportunity for graduate training to professionals and paraprofessionals who deal directly or indirectly with digital evidence, including law enforcement investigators, forensic laboratory analysts, lawyers and judges, and corporate computer security specialists. In addition, the Interdisciplinary Studies Program offers a Master of Science degree in Interdisciplinary Studies with a concentration in Computer Forensics, and the recently approved Master of Science degree in Digital Forensics provides further graduate work in digital forensics.

This certificate has 1 track: Computer Forensics, Out of State Cohort Track Graduate Certificate. Please scroll to the bottom of this page for further details on this track.

The Computer Forensics certificate requires four graduate courses (12 credit hours) in forensics study.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate. Students interested in the Out of State Cohort/Track, must contact the program director, Sheau-Dong Lang, PhD, prior to applying.

Graduate Application Deadlines

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<thead>
<tr>
<th>Computer Forensics Graduate Certificate</th>
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Graduate School Contact

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gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
- Complete at least 4 of the following:
  - CHS5504 - Topics in Forensic Science (3)
  - CHS5518 - The Forensic Collection and Examination of Digital Evidence (3)
  - CHS5596 - The Forensic Expert in the Courtroom (3)
  - CGS5131 - Computer Forensics I: Seizure and Examination of Computer Systems (3)
  - CNT6418 - Computer Forensics II (3)

- A graduate-level digital evidence course approved by the graduate program director may be used to substitute for CGS 5131 or CNT 6418.

Grand Total Credits: 12

Computer Forensics Graduate Certificate - Computer Forensics, Out of State Cohort Track Graduate Certificate

College
College of Engineering and Computer Science

Department
Department of Computer Science

Track Website
http://gccf.ucf.edu/
**Track Contact Information**

**Cliff Zou PhD**  
Associate Professor  
CZou@cs.ucf.edu  
Telephone: 407-823-5015  
HEC 243

**Is this track available 100% online?**  
No

**Track Description**

This program track has been temporarily suspended effective Fall 2016.

The Graduate Certificate in Computer Forensics provides a unique graduate training opportunity for those who deal directly or indirectly with digital evidence.

The National Center for Forensic Science (NCFS), the School of Electrical Engineering and Computer Science, and the Department of Chemistry jointly sponsor an interdisciplinary Graduate Certificate in Computer Forensics. This out-of-state cohort track provides online training to professionals and paraprofessionals who deal directly or indirectly with digital evidence, including law enforcement investigators, forensic laboratory analysts, lawyers and judges, and corporate computer security specialists. Students in the out-of-state cohort program pay less than half of the regular out-of-state tuition.

The Computer Forensics certificate requires four graduate courses (12 credit hours) in forensics study.

**Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree**

**Application Requirements**

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis. Final admission is based on evaluation of the applicant's abilities, past performance and the applicant's potential for completing the certificate. Students interested in the Out of State Cohort/Track, must contact the program director, Sheau-Dong Lang, PhD, prior to applying.

**Graduate School Contact**

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gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
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PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete at least 4 of the following:
  - CHS5504 - Topics in Forensic Science (3)
  - CHS5518 - The Forensic Collection and Examination of Digital Evidence (3)
  - CHS5596 - The Forensic Expert in the Courtroom (3)
  - CGS5131 - Computer Forensics I: Seizure and Examination of Computer Systems (3)
  - CNT6418 - Computer Forensics II (3)

Elective Courses
3 Total Credits

- Complete at least 1 of the following:
  - CIS6207 - The Practice of Digital Forensics (3)
  - CAP6133 - Advanced Topics in Computer Security and Computer Forensics (3)

Grand Total Credits: 15

Track Details

Cost Per Credit Hour
For the Computer Forensics Cohort Certificate, the cost per credit hour is $333.*
*Fee is subject to change.

Computer Science MS

College
College of Engineering and Computer Science

Department
Department of Computer Science

Program Website
http://www.cs.ucf.edu/

Program Handbook
Computer Science MS

Program Contact Information
Sumanta Pattanaik, Ph.D.
Associate Professor, Graduate Coordinator
Sumanta.Pattanaik@ucf.edu
HEC 218

Is this program available 100% online?
No
Program Description

The Master of Science in Computer Science program produces graduates with a high level of competency in understanding, applying, and enunciating the modern concepts, principles, methods, and theories necessary for the design and implementation of computing systems.

The Master of Science in Computer Science program provides students with an in-depth education geared toward meeting the needs of business and industry in Florida and throughout the United States. The program's goal is to produce graduates with a high level of competency in understanding, applying, and enunciating the modern concepts, principles, methods, and theories necessary for the design and implementation of computing systems.

Students in the program receive a broad background in the areas of programming systems and languages, computer architecture, and computer science theory while specializing in a research area. Research interests of the computer science faculty include affective computing, applied perception, bioinformatics, computational biology, computational geometry, computer and network security, computer architecture, computer forensics, computer graphics, computer networks, image processing, computer vision, cryptography, data compression, database management systems, data mining, design and analysis of algorithms, evolutionary computation, genetic algorithms, graph theory, hardware/software co-design, machine learning, mixed and virtual reality, mobile computing, modeling and simulation, multimedia systems, natural language processing, neural networks, parallel and distributed processing, performance evaluation, programming languages, quantum computing, semantic web, software agents, software engineering, and VLSI systems. The program has a long and respected history, having conferred MS degrees since 1968.

Students successfully completing this program will have exhibited breadth as well as depth of capability involving both theoretical aspects of computer science and practical considerations of computing.

This degree has 1 track: Accelerated BS to MS Track. Please scroll to the bottom of this page for further details on this Track.

The Computer Science MS program offers both a thesis and nonthesis option with each option requiring a minimum of 30 credit hours beyond the bachelor's degree. At least half of these hours must be at the 6000-level. Both options require 12 credit hours of required core courses and thesis students must take 12 credit hours of electives and a minimum of 6 credit hours of thesis. Nonthesis students must take 18 credit hours of electives and complete a culminating experience as determined by the program's graduate committee.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

An undergraduate degree in Computer Science is desirable but not required. Applicants without a strong undergraduate background in Computer Science must demonstrate an understanding of the material covered in the following upper-division undergraduate courses:

- EEL 4768C Computer Architecture
- COP 4020 Programming Languages I
- COP 4600 Operating Systems
- COT 4210 Discrete Computational Structures

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Resume
- 2 Letters of recommendation

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

All application materials must be submitted by the appropriate deadline listed below.

Graduate Application Deadlines

<table>
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<th>*Fall Priority</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
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gradadmissions@ucf.edu
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Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
  - Complete the following:
    - CDA5106 - Advanced Computer Architecture (3)
    - COT5405 - Design and Analysis of Algorithms (3)
  - Both CDA 5106 and COT 5405 must be completed with a B or better. Students earning a B- or below will have to repeat the course(s) until they earn a B or better.

Research Pair
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - Any approved pair of Computer Science courses from a single research area that includes at least one 6000-level course (See Program Details below for Examples of Approved Pairs)

Elective Courses
12 Total Credits

- Earn at least 12 credits from the following types of courses:
  - All students, both thesis and nonthesis, are required to complete 12 credit hours of electives that are selected after consultation with the student's adviser.

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - XXX 6971 Thesis (prefix determined by disciplinary area of your thesis adviser, e.g., CAP, CDA, CEN, COP or COT 6971)
        - Six credits of thesis are required with the professor who directs the student's thesis. The thesis experience is expected to span two semesters. Thesis students who are full-time must continue to enroll in 3 credit hours of thesis coursework until the thesis requirement is satisfied, even if it goes beyond the minimum of 6 credit hours of thesis. Students are required to prepare and defend a formal thesis in accordance with university requirements.
  - Nonthesis Option
    - Earn at least 6 credits from the following types of courses:
      - Additional Elective Coursework. The nonthesis option requires at least 6 additional credit hours of electives beyond the 12 credit hours of electives described above. In addition, nonthesis students are required to engage in a culminating experience as determined by the program's graduate committee. Students in the nonthesis option may not take more than 6 credit hours of independent study (6908) and/or directed research (XXX 6918).

Additional Requirements
0 Total Credits

- At least half of the credit hours of both thesis and nonthesis students must be at the 6000 level. Furthermore, at least two 6000-level Computer Science formal courses (6 credit hours) must be taught by EECS faculty, exclusive of independent study and directed research and a total of 24 credit hours of formal courses must be earned exclusive of thesis. Approval may be granted for no more than 6 credit hours of electives to be taken outside of Computer Science, and such approval must occur prior to taking these outside courses.

Grand Total Credits: 30

2021-2022 Graduate Catalog
Program Details

Examples of approved pairs include (but not limited to):

- Operating Systems (OS) area (COP 5611 and COP 6614)
- Computer Graphics area (CAP 5725 and CAP 6721)
- Machine Learning area (CAP 5610 or CAP 5512 and CAP 6616 or CAP 6545)
- Artificial Intelligence (AI) area (CAP 5636 and CAP 6640 or CAP 6676)
- Computer Vision area (CAP 5415 and CAP 6411 or CAP 6412 or CAP 6419 or CAP 6835)
- Computer Architecture area (CDA 5110 and/or CDA 5106 and CDA 6107)
- Networking area (CNT 5008 and CNT 6707)
- Software Engineering area (CEN 5016 and CEN 6081)
- Database area (COP 5711 and COP 6731), etc.
- Mixed Reality Engineering area (CAP 5115 and CAP 6110)
- Theory area (COT 5405 and COT 6410)
- Computer Security area (CAP 5150 and 1 or more 6000-level classes from Cyber Security and Privacy program)
- Quantum Computing area (COT 5600 and COT 6602)
- Bioinformatics area (CAP 5510 and CAP 6517)

The above list is only meant to provide some examples and is not comprehensive.

Equipment Fee

Students in the Computer Science MS program pay a $34 equipment fee each semester that they are enrolled. Part-time students pay $17 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis or an approved set of research-based classes for nonthesis students.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Computer Science MS - Computer Science MS, Accelerated BS to MS Track

College

College of Engineering and Computer Science
Department
Department of Computer Science

Track Website
http://www.cs.ucf.edu/

Track Handbook
Computer Science MS

Track Contact Information
Sumanta Pattanaik, Ph.D.
Associate Professor, Graduate Coordinator
Sumanta.Pattanaik@ucf.edu
HEC 218

Is this track available 100% online?
No

Track Description
The Accelerated BS to MS program in Computer Science allows highly qualified UCF undergraduate majors in Computer Science to take graduate-level courses that will count toward their MS degree while completing their BS degree program.

Up to 12 credit hours of 5000- and 6000-level courses with a grade of "B" (3.0) or better may be counted toward the accelerated BS to MS program. Two additional requirements for the students in this program are:

- Students must earn at least a "B" (3.0) in each undergraduate- or graduate-level course counted for the program.
- Students must opt for this program no later than the beginning of their junior year.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
This track is available to University of Central Florida undergraduate majors in Computer Science only.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated BS to MS program in Computer Science allows highly qualified University of Central Florida undergraduate majors in Computer Science to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but were not previously part of this accelerated program, then they should apply to the Computer Science Program without a track selection. Additional information about this track may be located at: http://www.cecs.ucf.edu/current-students/bs-ms-program/.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume
- 2 Letters of recommendation

Graduate Application Deadlines

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Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

Undergraduate Requirements
0 Total Credits

- See the current version of the Undergraduate Catalog and the College of Engineering and Computer Science website for additional requirements for accelerated programs.

**Required Courses**
12 Total Credits

- Complete all of the following
  - Complete the following:
    - CDA5106 - Advanced Computer Architecture (3)
    - COT5405 - Design and Analysis of Algorithms (3)
  - Both CDA 5106 and COT 5405 must be completed with a B or better. Students earning a B- or below will have to repeat the course(s) until they earn a B or better.

**Research Pair**
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - Any approved pair of Computer Science courses from a single research area that includes at least one 6000-level course (See Program Details below for Examples of Approved Pairs)

**Elective Courses**
12 Total Credits

- Earn at least 12 credits from the following types of courses:
  - All students, both thesis and nonthesis, are required to complete 12 credit hours of electives that are selected after consultation with the student's adviser.

**Thesis/Nonthesis Option**
6 Total Credits

- Complete 1 of the following
  - **Thesis Option**
    - Earn at least 6 credits from the following types of courses:
      - XXX 6971 Thesis (prefix determined by disciplinary area of your thesis adviser, e.g., CAP, CDA, CEN, COP or COT 6971)
      - Six credits of thesis are required with the professor who directs the student's thesis. The thesis experience is expected to span two semesters. Thesis students who are full-time must continue to enroll in 3 credit hours of thesis course work until the thesis requirement is satisfied, even if it goes beyond the minimum of 6 credit hours of thesis. Students are required to prepare and defend a formal thesis in accordance with university requirements.
  - **Nonthesis Option**
    - Earn at least 6 credits from the following types of courses:
      - Additional Elective Coursework. The nonthesis option requires at least 6 additional credit hours of electives beyond the 12 credit hours of electives described above. In addition, nonthesis students are required to engage in a culminating experience as determined by the program's graduate committee. Students in the nonthesis option may not take more than 6 credit hours of independent study (6908) and/or directed research (XXX 6918).

**Additional Requirements**
0 Total Credits

- At least half of the credit hours of both thesis and nonthesis students must be at the 6000 level. Furthermore, at least two 6000-level Computer Science formal courses (6 credit hours) must be taught by EECS faculty, exclusive of independent study and directed research and a total of 24 credit hours of formal courses must be earned exclusive of thesis. Approval may be granted for no more than 6 credit hours of electives to be taken outside of Computer Science, and such approval must occur prior to taking these outside courses.

Grand Total Credits: 30
**Track Details**

**Examples of approved pairs include (but not limited to):**

- Operating Systems (OS) area (COP 5611 and COP 6614)
- Computer Graphics area (CAP 5725 and CAP 6721)
- Machine Learning area (CAP 5610 or CAP 5512 and CAP 6616 or CAP 6545)
- Artificial Intelligence (AI) area (CAP 5636 and CAP 6640 or CAP 6676)
- Computer Vision area (CAP 5415 and CAP 6411 or CAP 6412 or CAP 6419 or CAP 6835)
- Computer Architecture area (CDA 5110 and/or CDA 5106 and CDA 6107)
- Networking area (CNT 5008 and CNT 6707)
- Software Engineering area (CEN 5016 and CEN 6081)
- Database area (COP 5711 and COP 6731), etc.
- Mixed Reality Engineering area (CAP 5115 and CAP 6110)
- Theory area (COT 5405 and COT 6410)
- Computer Security area (CAP 5150 and 1 or more 6000-level classes from Cyber Security and Privacy program)
- Quantum Computing area (COT 5600 and COT 6602)
- Bioinformatics area (CAP 5510 and CAP 6517)

The above list is only meant to provide some examples and is not comprehensive.

**Plan of Study**

The Plan of Study is an agreement between the student, the program and the University that lists the coursework taken to satisfy the requirements for completing the degree. The Plan of Study for student is flexible and unique to each student. However, it must meet university, college and department requirements.

All graduate students must have a Plan of Study on file, approved by the adviser and graduate coordinator, by the completion of 9 credit hours after entering the program. The College of Graduate Studies automatically places a "hold" on future registration for noncompliance. The default adviser for nonthesis MS students is the Graduate Coordinator.

**Equipment Fee**

Students in the Computer Science MS program pay a $34 equipment fee each semester that they are enrolled. Part-time students pay $17 per semester.

**Independent Learning**

The Independent Learning Requirement is met by successful completion of a master's thesis or an approved set of research-based classes for nonthesis students.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

- Millican Hall 120
- Telephone: 407-823-2827
- Appointment Line: 407-823-5285
- Fax: 407-823-5241
- finaid@ucf.edu
- http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

- Telephone: 407-823-0127
- gradfellowship@ucf.edu
- https://funding.graduate.ucf.edu
Computer Science PhD

College
College of Engineering and Computer Science

Department
Department of Computer Science

Program Website
http://www.cs.ucf.edu/

Program Handbook
Computer Science PhD

Program Contact Information
Sumanta Pattanaik, Ph.D.
Associate Professor, Graduate Coordinator
Sumanta.Pattanaik@ucf.edu
HEC 218

Is this program available 100% online?
No

Program Description
The Computer Science PhD program prepares students in the highest level of theory and practice of Computer Science, aiding with the development of research and instruction skills for positions in academia, industry and government sectors.

The Computer Science PhD program produces professionals trained at the highest possible academic level in the theory and practice of Computer Science in order to meet current and projected market demands for Computer Science experts. Students graduate with proven abilities in research and instruction and have expertise suitable for positions in industry, academia and government.

Students in the program receive a broad background in the areas of programming systems and languages, computer architecture and computer science theory while specializing in a research area. Research interests of the computer science faculty include affective computing, applied perception, bioinformatics, computational biology, computational geometry, computer and network security, computer architecture, computer forensics, computer graphics, computer networks, computer vision, cryptography, data compression, database management systems, data mining, design and analysis of algorithms, evolutionary computation, genetic algorithms, graph theory, hardware/software co-design, image processing, machine learning, mixed and virtual reality, mobile computing, modeling and simulation, multimedia systems, natural language processing, neural networks, parallel and distributed processing, performance evaluation, programming languages, quantum computing, semantic web, software agents, software engineering and VLSI systems.

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Students in the program receive a broad background in the areas of programming systems and languages, computer architecture and computer science theory while specializing in a research area. Research interests of the computer science faculty include affective computing, applied perception, bioinformatics, computational biology, computational geometry, computer and network security, computer architecture, computer forensics, computer graphics, computer networks, computer vision, cryptography, data compression, database management systems, data mining, design and analysis of algorithms, evolutionary computation, genetic algorithms, graph theory, hardware/software co-design, image processing, machine learning, mixed and virtual reality, mobile computing, modeling and simulation, multimedia systems, natural language processing, neural networks, parallel and distributed processing, performance evaluation, programming languages, quantum computing, semantic web, software agents, software engineering and VLSI systems.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites
An undergraduate degree in Computer Science is desirable but not required. Applicants without a strong undergraduate background in Computer Science must demonstrate an understanding of the material covered in the following upper-division undergraduate courses:

- EEL 4768C Computer Architecture 3 Credit Hours
- COP 4020 Programming Languages I 3 Credit Hours
- COP 4600 Operating System 3 Credit Hours
- COT 4210 Discrete Computational Structures 3 Credit Hours
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Outstanding students with a bachelor's degree are encouraged to apply directly to the doctoral program. Admission to the PhD program is formalized by the university upon the recommendation of the Computer Science Graduate Coordinator.

An undergraduate degree in Computer Science is desirable but not required. Applicants without a strong undergraduate background in Computer Science must demonstrate an understanding of the material covered in upper-division undergraduate courses listed under the Articulation Section of the Curriculum Information. Applicants may choose to demonstrate their knowledge of these courses by taking these courses as non-degree seeking and scoring "B" or better in all of them.

Graduate Application Deadlines

<table>
<thead>
<tr>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Institution Codes

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GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete all of the following
  - Complete the following:
    - CDAS106 - Advanced Computer Architecture (3)
    - COT5405 - Design and Analysis of Algorithms (3)
    - COT6410 - Computational Complexity (3)
  - Students must earn a B or better in CDA 5106, COT 5405, and COT 6410. Students earning a B- or below in this course work, will have to repeat the course work until they earn a B or better.

Elective Courses
48 Total Credits
Earn at least 48 credits from the following types of courses:
- Elective Coursework - Grades must be a "C" (2.0) or better with at most 6 credit hours having grades below "B" (3.0) and an overall grade point average of 3.0 or better. - No courses below the 5000-level, with no 5000-level CGS prefix course work. - No more than 12 credit hours of independent study (6908). - Five 6000- or 7000-level courses (15 credits) with grades of "B" (3.0) or better taught by EECS faculty. None of these may be independent study or dissertation for which letter grades (not S/U) are assigned. At least 36 hours must be formal course work, exclusive of independent study or doctoral research.

Dissertation
15 Total Credits
- Earn at least 15 credits from the following types of courses:
  XXX 7980 - Dissertation

Qualifying Review
0 Total Credits
- The Qualifying Review (QR) will be offered twice a year the in Fall and the Spring semester. A student enrolled in the PhD program is required to take the QR in the third semester (excluding the Summer semesters). The Graduate Committee will meet twice a year to evaluate the results. To pass QR a student should have at least one publication with the adviser and should have passed two core classes, or passed one and be enrolled in a second one. A second QR attempt should be not later than the fifth semester; at that time the student should have passed the three core courses.

Dissertation Committee
0 Total Credits
- The Dean, through the Chairs and Directors, is responsible for committee formation, additions and deletions. The doctoral committee must consist of a minimum of four members; three must be graduate faculty members from within EECS and one must be at large from outside the EECS faculty. Joint faculty members may serve as school-faculty committee members. The Computer Science Graduate Committee may specify additional membership. The College of Graduate Studies reserves the right to review appointments to advisory committees, place a representative on any advisory committee, or appoint a co-adviser. Joint faculty members may serve as committee chairs, but graduate faculty scholars may not, although they may serve as co-chairs. All members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the advisory committee.

Admission to Candidacy
0 Total Credits
- The following are required to be admitted to candidacy and enroll in dissertation hours. Evidence of successful completion of these requirements must be received in the College of Graduate Studies by the day before the first day of classes in which the student wishes to enroll in dissertation hours: - Completion of all course work, except for dissertation hours. - Successful completion of the candidacy examination. - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. - Submission of an approved program of study.

Time Limitation
0 Total Credits
- Students have seven years from the beginning of regular graduate status in the PhD program to complete all requirements for the degree, although most students finish within 4 to 5 years.

Dissertation Proposal
0 Total Credits
- After passing the candidacy examination, the student will write a dissertation proposal and present it orally to the dissertation advisory committee for approval. The proposal must include a description of the research performed to date and research plans.

Dissertation and Oral Defense
0 Total Credits
- Students must write a dissertation on their research that describes a significant original contribution to the field of computer science. The oral defense of the dissertation is reviewed by the research committee. The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the student's adviser and posted on the college's website and the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date. The dissertation must be approved by the dissertation adviser and committee, the school director or designee and the dean of the college or designee. Format approval from the Thesis and Dissertation Editor and final approval of satisfaction of
Program Details

A plan of study for each student must be filed within the first two weeks of the student's second semester in the program. Details about this program can be found in the Computer Science PhD Handbook.

This plan must satisfy the following:

- A minimum of 72 credit hours (including CDA 5106, COT 5405, and COT 6410 - all with a grade of "B" (3.0) or better). At most 30 credit hours can be waived from a completed MS program, exclusive of thesis, independent study, dissertation, and research. Otherwise, at most 9 external credits can be transferred.
- A 3.0 or better grade point average is required. At most 6 credit hours with "C" (2.0) are allowed.
- No courses below the 5000-level, with no 5000-level CGS prefix coursework.
- No more than 12 credit hours of independent study (6908).
- Five 6000- or 7000-level courses (15 credits) with grades of "B" (3.0) or better taught by EECS faculty. None of these may be independent study or dissertation for which letter grades (not S/U) are assigned.
- Six additional computer science graduate credits to make the total of all non-independent study (e.g., formal coursework exclusive of independent study) of at least 36 credits.
- A minimum of 15 credit hours and a maximum of 24 credit hours of PhD dissertation (CAP, CDA, CEN, CIS, CNT, COP or COT 7980).

Equipment Fee

Students in the Computer Science PhD program pay a $34 equipment fee each semester that they are enrolled. Part-time students pay $17 per semester.

Independent Learning

The Independent Learning requirement is met by successful completion of the student's candidacy and dissertation defense examinations.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

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https://funding.graduate.ucf.edu

Computer Vision MS

College
College of Engineering and Computer Science

Department
Department of Computer Science

Program Website
https://www.crcv.ucf.edu/
Is this program available 100% online?

No

Program Description

The Master of Computer Vision Program (MSCV) aims to provide technical skills and domain knowledge to the future professionals in acquiring, processing, analyzing, and understanding images, videos, 3D data, and other types of high-dimensional data of the real world. The fast-growing interests and investments in Artificial Intelligence (AI) have to be powered by a well-prepared workforce. This program meets the need created by the United States' shortage of AI personnel.

The curriculum for this degree program includes 6 required classes (18 credit hours) which form the backbone of graduate study for the field.

The remaining 12 credit hours can be selected from the list of elective courses. Electives outside of the provided list require approval from the student's adviser and program coordinator.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

An undergraduate degree in Computer Science is desirable but not required. Applicants without a strong undergraduate background in Computer Science must demonstrate an understanding of the material covered in the following upper-division undergraduate courses:

- EEL 4768C Computer Architecture
- COP 4020 Programming Languages I
- COP 4600 Operating Systems
- COT 4210 Discrete Computational Structures

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume
- 1 Letter of recommendation
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

All application materials must be submitted by the appropriate deadline listed below.

Graduate Application Deadlines

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Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
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Degree Requirements

Required Courses  
18 Total Credits

- Complete the following:
  - CAP5415 - Computer Vision (3)  
  - CAP6411 - Computer Vision Systems (3)  
  - CAP6412 - Advanced Computer Vision (3)  
  - CAP6419 - 3D Computer Vision (3)  
  - CAP5516 - Medical Image Computing (3)  
  - CAP5610 - Machine Learning (3)

Elective Courses  
12 Total Credits

- Earn at least 12 credits from the following types of courses:  
  All students are required to complete 12 credit hours of electives that are selected after consultation with the student's adviser. At least half of the credit hours of students must be at the 6000 level. Approval may be granted for no more than 6 credit hours of electives to be taken outside of Computer Science, and such approval must occur prior to taking any classes outside of the four listed below. CAP 5908 Independent Study CAP 6908 Independent Study COT 6505 - Computational Methods/Analysis STA 6106 - Statistical Computing

Grand Total Credits: 30

Program Details

Equipment Fee

Students in the Computer Vision MS program pay a $34 equipment fee each semester that they are enrolled. Part-time students pay $17 per semester.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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2021-2022 Graduate Catalog
Fellowship Information

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Cyber Security and Privacy MS

College
College of Engineering and Computer Science

Department
Department of Computer Science

Program Website
https://mscyber.cs.ucf.edu/

Program Contact Information

Cliff C. Zou PhD
Associate Professor
Department of Computer Science
czou@cs.ucf.edu
Telephone: 407-823-5015
HEC 243

Jeanine Clements
Graduate Student Services Coordinator
Jeanine.Clements@ucf.edu
Telephone: 407-882-2313
HEC 437B

Is this program available 100% online?

No
**Program Description**

The Master of Science in Cyber Security and Privacy program will provide high-quality cybersecurity graduate education, advance cyber security and privacy research, and address the issues of state, national and international cybersecurity.

The Master of Science in Cyber Security and Privacy program provides students with an in-depth education geared toward meeting the needs of business and industry in Florida and throughout the United States.

Students successfully completing this program will have exhibited breadth as well as depth of capability involving both theoretical aspects and practical considerations and applications of cyber security issues in software, hardware, operating system, and various networked devices.

This proposed program will be offered jointly by College of Engineering and Computer Science (CECS) (Department of Computer Science), College of Business Institute of Simulation and Training (IST), College of Sciences (Department of Psychology), College of Community Innovation and Education (Department of Criminal Justice). The degree will be housed in CECS due to its requirement for students with primarily STEM backgrounds.

The MS in Cybersecurity and Privacy program will have two tracks: TRACK 1: Technical Track and TRACK 2: Interdisciplinary Track.

Track 1 is designed for students aiming to become advanced cybersecurity and privacy professionals, who will master advanced knowledge on cybersecurity and privacy topics such as secure execution environment and malware analysis, and master knowledge on electives on networking, database, operating system, computer architecture, algorithms, machine learning and artificial intelligence (AI) and software engineering.

Track 2 is designed for students aiming to become managers or administrative personnel of cybersecurity and privacy operations. They will be required to take fundamental and core courses on cybersecurity and privacy, and can choose electives from fields including management and business, human factors, psychology and criminal justice.

The MS in Cybersecurity and Privacy program offers both a thesis and non-thesis option with each option requiring a minimum of 30 credit hours beyond the bachelor's degree. Both options require 9 credit hours of required core courses and 7 electives (21 credits). For Track 1, electives include minimum 1 course from cybersecurity/privacy topics, minimum 1 course from networking, and minimum 1 from database. The three fields from which students have to choose one course are necessary and fundamental to master advanced knowledge on cybersecurity and privacy. Students can also choose electives from operating system, computer architecture, algorithms, machine learning and artificial intelligence (AI) and software engineering to expand their horizon. For Track 2, students can freely choose electives from management and business, human factors, psychology and criminal justice, depending on their interest and professional domains. For both tracks, there is a thesis option, which is equivalent to 6 credit course hours of electives.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree**

**Program Prerequisites**

An undergraduate degree in Computer Science, Computer Engineering, Information Technology, or equivalent is desirable but not required. Applicants without a strong undergraduate background in Computer must demonstrate an understanding of the material covered in the following undergraduate courses:

- COP 3502C - Computer Science I
- COP 3503C - Computer Science II
- CIS 3360 - Security in Computing

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Resume
- 1 Letter of recommendation
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

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Degree Requirements

Required Courses
9 Total Credits

- Complete the following:
  - CAP5150 - Foundations of Computer Security and Privacy (3)
  - CDA5209 - Foundations of Secure Execution Environment (3)
  - CIS6614 - Advanced Software Systems Security (3)

Elective Courses
15 Total Credits

- Complete 1 of the following
  - All students, both thesis and nonthesis, are required to complete 15 credit hours of electives that are selected after consultation with the student's adviser. For Track 1: Technical Track, electives include minimum 1 course from cybersecurity/privacy topics, minimum 1 course from networking, and minimum 1 course from database. The three fields from which students have to choose one course are necessary and fundamental to master advanced knowledge on cybersecurity and privacy. Students can also choose electives from operating system, computer architecture, algorithms, machine learning and artificial intelligence (AI) and software engineering to expand their horizon. For Track 2: Interdisciplinary Track, students can freely choose electives from management and business, human factors, psychology and criminal justice, depending on their interest and professional domains.

  Track 1: Technical Track
  - Complete all of the following
    - Cybersecurity/Privacy
      - Complete at least 1 of the following:
        - CAP5151 - Internet of Things Security and Privacy (3)
        - CAP6135 - Malware and Software Vulnerability Analysis (3)
        - CDA6221 - Advanced Topics in Secure Execution Environment (3)
        - CIS6395 - Incident Response Technologies (3)
        - CNT5410L - Cyber Operations Lab (3)
        - CIS5730 - Blockchains and Smart Distributed Contracts (3)
    - Networking
      - Complete at least 1 of the following:
        - CNT5008 - Computer Communication Networks Architecture (3)
        - CNT5805 - Network Science (3)
        - CNT6707 - Advanced Computer Networks (3)
    - Database
      - Complete at least 1 of the following:
        - COP5711 - Parallel and Distributed Database Systems (3)
        - COP6731 - Advanced Database Systems (3)
  - Other Electives
    - Complete at least 2 of the following:
      - CDA5106 - Advanced Computer Architecture (3)
      - COP5611 - Operating Systems Design Principles (3)
      - COT5405 - Design and Analysis of Algorithms (3)
Track 2: Interdisciplinary Track

- Complete at least 5 of the following:
  - ISM6327 - Foundations of Cybersecurity and Privacy (3)
  - ISM6328 - Cyber Risk Assessment (3)
  - ISM6375 - Cyber Management and Leadership (3)
  - IDC5602 - Cybersecurity: A Multidisciplinary Approach (3)
  - IDC6600 - Emerging Cyber Issues (3)
  - IDC6601 - Behavioral Aspects of Cybersecurity (3)
  - EXP5256 - Human Factors I (3)
  - EXP6257 - Human Factors II (3)
  - INP6072 - Survey Research Methods and Program Evaluation in Indust. and Org. Psychology (3)
  - Course Not Found
  - SOP5059 - Advanced Social Psychology (3)
  - CCJ6073 - Data Management Systems for Crime Analysis (3)
  - CCJ6074 - Investigative and Intelligence Analysis: Theory and Methods (3)
  - CCJ6717 - CJ Theories of Crime Analysis and Prevention (3)

Thesis/Nonthesis Option

6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - XXX 6971 Thesis (prefix determined by disciplinary area of your thesis adviser, e.g., CAP, CDA, CEN, COP or COT 6971)
        Six credits of thesis are required with the professor who directs the student's thesis. The thesis experience is expected to span two semesters. Thesis students who are full-time must continue to enroll in 3 credit hours of thesis course work until the thesis requirement is satisfied, even if it goes beyond the minimum of 6 credit hours of thesis. Students are required to prepare and defend a formal thesis in accordance with university requirements.
      - Nonthesis Option
    - Earn at least 6 credits from the following types of courses:
      - Additional elective coursework. The nonthesis option requires 6 additional credit hours of any electives in both tracks beyond the 15 credit hours of electives in the intended program track described above.

Grand Total Credits: 30

Program Details

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis or an approved set of research-based classes for nonthesis students.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

- Millican Hall 120
- Telephone: 407-823-2827
- Appointment Line: 407-823-5285
- Fax: 407-823-5241
- finaid@ucf.edu
- http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

- Telephone: 407-823-0127
- gradfellowship@ucf.edu
- https://funding.graduate.ucf.edu
Data Analytics Graduate Certificate

College

College of Engineering and Computer Science

Department

Department of Computer Science

Program Website

http://www.ce.ucf.edu/credit/data/

Program Contact Information

Ivan Garibay PhD
igaribay@ucf.edu
Telephone: 407-882-1163
ENG2

Is this program available 100% online?

Yes

UCF Online

Please note: Data Analytics Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Data Analytics, which is part of the Master of Science in Data Analytics program, aims to provide students with the new ability to develop algorithms and computer programs for discovery of information from large amounts of data. This includes the architecture of programs, as well as technical details of algorithm development. Students are expected to be able to write and maintain novel computer programs that make efficient use of cutting-edge computer technology.

Students in this certificate option will receive a broad background in the areas of parallel database programming, machine learning, data mining, and network science while specializing in particular areas of data analytics practice. Students successfully completing this certificate program will have exhibited an advanced ability to lead in the discovery of actionable knowledge from "big data."

The Graduate Certificate in Data Analytics requires 15 credit hours. Students must receive a grade of "B" or higher in all courses.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

An undergraduate degree in computer science, statistics, computer engineering or information technology is desirable but not required. Applicants without a strong undergraduate background in computer science or statistics must demonstrate an understanding of the field. This can occur through a display of training in various programming languages, other computer science certificates, through an interview with program faculty in the application process, and/or having taken these or similar courses in the following upper division undergraduate courses:

- COP 3330 Object-Oriented Programming
- COP 3503C Computer Science II
- COP 4710 Database Systems
- STA 2023 Statistical Methods I
- Programming experience or STA 4164 Statistical Methods III

2021-2022 Graduate Catalog
Application Requirements

For information on general UCF graduate certificate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Resume/CV
- Letters of recommendation (encouraged but not required)

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

An undergraduate degree in Computer Science, Statistics, Information Technology, or Computer Engineering is desirable but not required. Applicants without a strong undergraduate background in Computer Science and Statistics must demonstrate an understanding of the material covered in upper-division undergraduate courses listed under the Articulation Section of the Curriculum Information. Applicants may choose to demonstrate their knowledge of these courses by taking these courses as non-degree seeking and scoring "B" or better in all of them.

Graduate Application Deadlines

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<th>*Fall Priority</th>
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Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits

- Complete the following:
  - CAP5610 - Machine Learning (3)
  - CNT5805 - Network Science (3)
  - COP5711 - Parallel and Distributed Database Systems (3)
  - STA5206 - Statistical Analysis (3)
  - STA5703 - Data Mining Methodology I (3)

Grand Total Credits: 15
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Data Analytics MS

College
College of Engineering and Computer Science

Department
Department of Computer Science

Program Website
http://www.ce.ucf.edu/credit/data/

Program Contact Information
Dan Eilen, PhD
eilen.daniel@ucf.edu
Telephone: 407-823-5738
UTWR

Is this program available 100% online?
No

Program Description

The Master of Science in Data Analytics program provides students with the ability to develop algorithms and computer programs for discovery of information from large amounts of data. This includes the architecture of programs, as well as technical details of algorithm development. Students are expected to be able to write and maintain novel computer programs that make efficient use of cutting-edge computer technology.

Students in this nonthesis program receive a broad background in the areas of parallel programming, machine learning, data mining, and network science while specializing in particular areas of data analytics practice. Students successfully completing this program will have exhibited breadth as well as depth of capability involving discovery of knowledge from "big data."

The MS in Data Analytics requires 30 credit hours and includes a project, which is a culminating experience. Students must receive a grade of “B” or higher in all courses.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree
Program Prerequisites

An undergraduate degree in computer science, statistics, computer engineering or information technology is desirable but not required. Applicants without a strong undergraduate background in computer science or statistics must demonstrate an understanding of the material covered in the following upper division undergraduate courses:

- COP 3330 Object-Oriented Programming
- COP 3503C Computer Science II
- COP 4710 Database Systems
- STA 2023 Statistical Methods I
- Programming experience or STA 4164 Statistical Methods III

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Resume/CV
- 2 Letters of recommendation
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

An undergraduate degree in Computer Science, Statistics, Information Technology, or Computer Engineering is desirable but not required. Applicants without a strong undergraduate background in Computer Science and Statistics must demonstrate an understanding of the material covered in upper-division undergraduate courses listed under the Articulation Section of the Curriculum Information. Applicants may choose to demonstrate their knowledge of these courses by taking these courses as non-degree seeking and scoring "B" or better in all of them.

Graduate Application Deadlines

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Application Deadlines Notes

* Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

2021-2022 Graduate Catalog
Degree Requirements

Required Courses
24 Total Credits

- Complete the following:
  - CAP5610 - Machine Learning (3)
  - CNT5805 - Network Science (3)
  - COP5711 - Parallel and Distributed Database Systems (3)
  - COP6526 - Parallel and Cloud Computation (3)
  - STA5206 - Statistical Analysis (3)
  - STA5703 - Data Mining Methodology I (3)
  - STA6704 - Data Mining Methodology II (3)
  - CAP6942 - Project in Data Analytics (3)

Restricted Elective Courses
6 Total Credits

- Complete at least 2 of the following:
  - CAP6307 - Text Mining I (3)
  - CAP6315 - Social Media and Network Analysis (3)
  - CAP6318 - Computational Analysis of Social Complexity (3)
  - CAP6545 - Machine Learning Methods for Biomedical Data (3)
  - CAP6737 - Interactive Data Visualization (3)
  - STA6714 - Data Preparation (3)

Grand Total Credits: 30

Program Details

Independent Learning

The Independent Learning Requirement is met by successful completion of a capstone project in CAP 6942 - Project in Data Analytics.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Design for Usability Graduate Certificate

College

College of Engineering and Computer Science

Department

Department of Industrial Engineering and Management Systems

Program Website

http://www.iems.ucf.edu/
Program Contact Information

Mansooreh Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Is this program available 100% online?
Yes

UCF Online

Please note: Design for Usability Graduate Certificate may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

This program has suspended admissions effective Fall 2020 including online.

The Graduate Certificate in Design for Usability introduces students to the methods of user-centered design and usability engineering tools that can be used to assess and assure usability throughout a product, service or system development cycle. Students in the certificate program learn how to design products that are both ergonomically sound and user-friendly, how to plan and conduct usability tests, analyze related data, and how to use the results to improve the design of a product, service or system.

For the Design for Usability certificate, students complete four required courses, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Admission is open to those with a bachelor's degree in industrial engineering or a closely related discipline from an accredited institution recognized by UCF.

Application Requirements

Admission is open to those with a bachelor's degree in industrial engineering or a closely related discipline from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc only.

Applications are accepted for the fall and spring terms only.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
  - Complete the following:
    - EIN5248 - Ergonomics (3)
    - ESI6247 - Experimental Design and Taguchi Methods (3)
  - Complete at least 1 of the following:
    - EIN5251 - Usability Engineering (3)
    - EIN6370 - Innovation in Engineering Design (3)
  - Complete at least 1 of the following:
    - EIN6258 - Human Computer Interaction (3)
    - EIN5255C - Interactive Simulation (3)

Grand Total Credits: 12

Digital Forensics MS

College
College of Engineering and Computer Science

Department
Department of Computer Science

Program Website
http://msdf.ucf.edu/

Program Handbook
Digital Forensics MS

Program Contact Information

Cliff Zou PhD
Associate Professor
CZou@cs.ucf.edu
Telephone: 407-823-5015
HEC 243

Is this program available 100% online?
Yes

UCF Online

Please note: Digital Forensics (MS) may be completed fully online. Most courses are either online courses or have both in-campus and online course sessions. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. It could be difficult to satisfy these requirements since many courses in this program only have online format. Please contact Program Coordinator to discuss possible admission issue.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

The Digital Forensics master's degree is a collaborative effort between various UCF academic departments (Computer Science, Forensic Science of Chemistry, Criminal Justice, and Legal Studies) and the National Center for Forensic Science (NCFS), which is based in the UCF College of Sciences as a forensic science research center and is housed in Orlando's Research Park, adjacent to UCF.

The mission of the MSDF degree program is to provide a quality graduate education in science and practices of digital forensics, to prepare the students for digital forensics jobs, and to prepare the students for a lifetime of learning. The objectives of the program include the following:

- To give MSDF graduates the knowledge and skills necessary to participate as an effective team member or team leader in digital evidence investigations
- To prepare MSDF graduates for professional careers in digital forensics examination, forensic tool development, tool verification and validation, security and forensics administration
- To prepare MSDF graduates with the knowledge and skills to pursue advanced studies and research in computer technology or computer crime-related disciplines
- To equip MSDF graduates with the communication skills, both oral and written, to become an effective problem solver as well as an effective communicator as an expert forensic examiner and expert witness

The Digital Forensics MS degree is comprised of 30 hours of study beyond the bachelor's degree with required, intensive specialization in topics related to digital forensics. The degree program prepares students, including working professionals, who will pursue the degree on a part-time basis to gain the knowledge and skills required to work as an examiner in the field. The program may also be taken by those who have an interest in scientific applications and research in the field, and who would like to continue to a doctoral degree program or law school after completion.

The program offers both a thesis option (6 credit hours) or an opportunity to complete two additional courses (6 credit hours) selected from the Restricted Electives. At least one-half of the credit hours must be at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Undergraduate articulation courses may be required for students with BS and/or MS degrees in fields other than a computer-related field. If you are not in STEM related BS program, you need to show either you have taken some basic CS/IT courses, or have working experience in CS or IT or digital forensics field. If you want to take some prerequisite courses, you can take two to three of the following courses in UCF or equivalent courses in other places:

- Basic CS knowledge: COP 3502: Computer Science I
- Basic networking knowledge: CNT 3004 Computer Network Concepts, or CNT 4703C Design and Implementation of Computer Communication Networks, or CNT 4704 Analysis of Computer Communication Networks
- Basic Computer architecture: CDA 3103: Computer Logic and Organization
- Programming course, such as: COP 3223C Introduction to Programming with C, or COP 3330 Intro to OO Programming with Java

Courses taken to correct deficiencies cannot be used to satisfy minimum degree requirements.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Statement of educational, research, and professional career objectives.
- Résumé.
- One letter of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

The GRE is not required for admission into this program.

Graduate Application Deadlines

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<th><em>Fall Priority</em></th>
<th>Fall</th>
<th>Spring</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

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gradadmissions@ucf.edu
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Mailing Address

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Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - CGS5131 - Computer Forensics I: Seizure and Examination of Computer Systems (3)
  - CHS5504 - Topics in Forensic Science (3)
  - CIS6207 - The Practice of Digital Forensics (3)
  - CNT6418 - Computer Forensics II (3)

Restricted Elective Courses
12 Total Credits

- Complete all of the following
  Computing and Technology
  - Complete at least 2 of the following:
    - CAP6133 - Advanced Topics in Computer Security and Computer Forensics (3)
    - CNT6519 - Wireless Security and Forensics (3)
    - CAP6135 - Malware and Software Vulnerability Analysis (3)
    - CIS6386 - Operating Systems and File System Forensics (3)
    - CIS6395 - Incident Response Technologies (3)
    - CNT5410L - Cyber Operations Lab (3)
    - IDC5602 - Cybersecurity: A Multidisciplinary Approach (3)
    - IDC6600 - Emerging Cyber Issues (3)
    - IDC6601 - Behavioral Aspects of Cybersecurity (3)
  Criminal Justice
  - Complete at least 1 of the following:
    - CCJ5015 - The Nature of Crime (3)
    - CCJ5456 - The Administration of Justice (3)
    - CCJ6074 - Investigative and Intelligence Analysis: Theory and Methods (3)
    - CCJ6704 - Research Methods in Criminal Justice (3)
    - CCJ6706 - Data Analysis in Criminal Justice I (3)
    - CJ6688 - Cyber Crime and Criminal Justice (3)
    - CJL6568 - Law and Social Control (3)

Legal Studies and Electronic Discovery

- Complete at least 1 of the following:
  - CHS5596 - The Forensic Expert in the Courtroom (3)
  - CHS5518 - The Forensic Collection and Examination of Digital Evidence (3)
  - PLA5587 - Current Issues in Cyberlaw (3)
  - CIS6206 - Electronic Discovery for Digital Forensics Professionals (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  Thesis Option
  - Earn at least 6 credits from the following types of courses:
    - CAP 6971: Thesis The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  Nonthesis Option
  - Earn at least 6 credits from the following types of courses:
    Students not interested in a thesis can instead take one elective course and the "CDA 6946: Internship" course, or take two electives. The electives can be any courses from the list of Restricted Electives above, or the following electives.

Grand Total Credits: 30

Program Details

Independent Learning

The Independent Learning Requirement is met by successful completion of a master's thesis or completing the capstone course CIS 6207.
**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu
http://finaid.ucf.edu

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Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

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**Electrical Engineering MSEE**

**College**

College of Engineering and Computer Science

**Department**

**Program Website**

http://www.ece.ucf.edu/

**Program Handbook**

Electrical Engineering MSEE

**Program Contact Information**

Kalpathy Sundaram PhD
Professor
ece-grad@cecs.ucf.edu
Telephone: 407-823-5326
HEC 439B

**Is this program available 100% online?**

No

**Licensure Disclosure**

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Electrical-Engineering-MS.pdf.
Program Description

The Master of Science in Electrical Engineering students receive a broad background in areas such as electromagnetics and optics, signal processing and systems, and micro-systems and nano-systems.

The Department of Electrical Engineering (Electrical Engineering Program) supports a number of technical (research) areas in which a Master of Science student may specialize. These technical areas are: Electromagnetics and Optics (EO), Signal Processing and Systems (SPS), and Micro-Systems and Nano-Systems (MNS). The Micro-Systems and Nano-Systems area covers the typical Electrical Engineering topic areas of Electronics, Power Electronics, and Micro-Electronics, while the Signal Processing and Systems area covers the typical electrical topic areas of communications, controls, and signal processing. All MSEEE programs offer a thesis and a non-thesis option, as well as an Accelerated BS to MSEEE program. Students in the program receive a broad background in the various technical areas while specializing in a research area of their interest.

The specific research area that each one of the EE faculty conduct can be found at the Department of EE website (www.ece.ucf.edu/).

This degree has 2 tracks: Accelerated BS to MSEEE Track and Guidance Control and Dynamics Track. Please scroll to the bottom of this page for further details on these Tracks.

Program Prerequisites

Undergraduate articulation courses are required to be completed prior to admission for students who do not hold a Bachelor of Science degree in Electrical Engineering. In particular, the articulation courses specified below, plus all of the prerequisite string which any of them require, must be completed prior to admission. Grades of "B" or higher must be obtained in each articulation course specified below. Articulation courses are not eligible for inclusion on a graduate Program of Study.

- EEL 3123C - Network and Systems
- EEE 3307C - Electronics I
- EEL 3470 - Electromagnetic Fields
- EEL 3552 - Signal Analysis and Communications
- EEE 3350 - Semiconductor Devices I

In addition, choose one of the following:

- EEL 3657 - Linear Control Systems
- EEE 4309C - Electronics II
- EEL 4750 - Digital Signal Processing Fundamentals

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Electrical Engineering or a related discipline.
- GRE is not required for MSEEE applicants with a BS degree in EE or CpE and with a minor in any of following disciplines of EE, CpE or CS.
- Two letters of recommendation.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may also be required to correct any course deficiencies. Students should contact the graduate program director for further information.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
**Elective Courses**

There are no required courses within a specialization area, however, all students (thesis and non-thesis) must choose at least 24 credit hours of formal courses, excluding research-related courses and Independent Study (XXX 6908) that emphasize their specialization area. Courses from outside specialization areas could also be chosen if they are approved by the student's adviser and incorporated into the Program of Study for the student. The Program of Study (POS) form must be approved by an adviser in the selected specialization area no later than the end of the second semester after admission. The program of study must meet all the university requirements specified in the graduate catalog and must also receive departmental-level and college-level approval.

**Specialization Areas**

Complete 1 of the following:

- **Electromagnetics and Optics (EO)**
  - EEE5542 - Random Processes I (3)
  - EEE5557 - Introduction to Radar Systems (3)
  - EEL5437C - Microwave Engineering (4)
  - EEL5439C - RF and Microwave Active Circuits (4)
  - EEL5462 - Antenna Analysis and Design (3)
  - EEL5432 - Satellite Remote Sensing (3)
  - EEL6425C - RF and Microwave Measurement Techniques (4)
  - EEL6481 - Numerical Techniques in Electromagnetics (3)
  - EEL6482 - Electromagnetic Theory I (3)
  - EEL6489 - Advanced Topics in Electromagnetics and Microwaves (3)
  - EEL6504 - Communications Systems Design (3)
  - EEL6530 - Communication Theory (3)
  - MAP5426 - Special Functions (3)
  - MAP5435 - Advanced Mathematics for Engineers (3)
  - MAP6424 - Transform Methods (3)
  - OSE5041 - Introduction to Wave Optics (3)
  - OSE5414 - Fundamentals of Optoelectronic Devices (3)
  - OSE6111 - Optical Wave Propagation (3)
  - OSE6143 - Fiber Optics Communication System (3)
  - OSE6211 - Imaging and Optical Systems (3)
  - OSE6421 - Integrated Photonics (3)
  - OSE6432 - Guided Waves and Optoelectronics (3)
  - OSE6445 - Fundamentals of Ultrafast Optics (3)
  - OSE6455C - Photonics Laboratory (3)
  - OSE5525 - Laser Engineering (3)
  - OSE6615L - Optoelectronic Device Fabrication Laboratory (3)
  - OSE5525 - Laser Engineering (3)
Micro-Systems and Nano-Systems (MNS)
- Earn at least 24 credits from the following:
  - BME5572 - Biomedical Nanotechnology (3)
  - EEL5245 - Power Electronics (3)
  - EEE5332C - Thin Film Technology (3)
  - EEE5352 - Semiconductor Material and Device Characterization (3)
  - EEE5353 - Semiconductor Device Modeling and Simulation (3)
  - EEE5356C - Fabrication of Solid-State Devices (4)
  - EEE5370 - Operational Amplifiers (3)
  - EEE5378 - CMOS Analog and Digital Circuit Design (3)
  - EEE5390C - Full-Custom VLSI Design (3)
  - EEE5555 - Surface Acoustic Wave Devices and Systems (3)
  - EEE6317 - Power Semiconductor Devices and Integrated Circuits (3)
  - EEE6358 - Advanced Semiconductor Device I (3)
  - EEL6246 - Power Electronics II (3)
  - EEE6326C - MEMS Fabrication Laboratory (3)
  - EEE6338 - Advanced Topics in Microelectronics (3)

Signal Processing and Systems (SPS)
- Earn at least 24 credits from the following:
  - EEE5513 - Digital Signal Processing Applications (3)
  - EEE5542 - Random Processes I (3)
  - EEE5557 - Introduction to Radar Systems (3)
  - EEE6504 - Adaptive Digital Signal Processing (3)
  - EEL5820 - Image Processing (3)
  - EEL5825 - Pattern Recognition and Learning from Big Data (3)
  - EEL5630 - Digital Control Systems (3)
  - EEL5173 - Linear Systems Theory (3)
  - EEL6504 - Communications Systems Design (3)
  - EEL6530 - Communication Theory (3)
  - EEL6590 - Advanced Topics in Communications (3)
  - EEL6812 - Introduction to Neural Networks (3)
  - EEL6619 - Nonlinear Robust Control and Applications (3)
  - EEL6621 - Nonlinear Control Systems (3)
  - EEL6662 - Advanced Robotics (3)
  - EEL6667 - Mobile Robotic Systems (3)
  - EEL6671 - Modern and Optimal Control Systems (3)
  - EEL6674 - Optimal Estimation for Control (3)
  - EEL66616 - Adaptive Control (3)
  - EEL6683 - Cooperative Control of Networked Autonomous Systems (3)
  - EEL6669 - Introduction to Robotics and Autonomous Vehicles (3)
  - EEL6026 - Optimization of Engineering Systems (3)
  - CAP5415 - Computer Vision (3)
  - CAP6411 - Computer Vision Systems (3)
  - CAP6412 - Advanced Computer Vision (3)
  - CAP6419 - 3D Computer Vision (3)

Thesis/Nonthesis Option
6 Total Credits
- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - EEL 6971 - Thesis The thesis option requires 6 credit hours of thesis work (EEL 6971) in addition to the 24 credit hours of formal elective courses. Please note the following requirements for this option: - 24 credit hours of courses must be taken in the student's chosen specialization area. - No more than 6 credits of thesis (EEL 6971) will be counted toward the degree requirement. - At least half of the coursework, including Thesis XXX 6971, must be at the 6000-level (typically at least 15 credit hours). - Thesis students who are full time must continue to enroll in three credit hours of thesis coursework each semester until the thesis requirement is satisfied, beyond the minimum of 6 credit hours of thesis, but only 6 hours total will count toward the degree requirement. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        - Additional Elective Coursework. The nonthesis option is especially suited for part-time students. Nonthesis students must complete 6 credit hours of electives in addition to the 24 credit hours of formal coursework described above. If approved by the student's adviser, the student may include a total of 6 credit hours as an Independent Study (XXX 6908). At least half of the coursework must be at the 6000-level (typically at least 15 credit hours).
        - Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of their portfolio of activities by the course withdrawal date of the semester prior to their intended graduation. Portfolio requirements are listed on the EECS website at http://www.eecs.ucf.edu/.
Grand Total Credits: 30

Program Details

Transfer Credits

Graduate students with a bachelor's degree in Electrical Engineering from UCF may transfer up to 9 credit hours of 5000-level or higher coursework, with grades of B or higher, toward the MSEE degree. Alternatively, a maximum of 9 credit hours may be transferred of graduate work conducted elsewhere from an accredited institution.

Equipment Fee

Students in the Electrical Engineering MSEE program pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 per semester.

Independent Learning

The independent learning requirement is met by successful completion of a master's thesis or an approved portfolio of activities for nonthesis students.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Electrical Engineering MSEE - Electrical Engineering MSEE, Accelerated BS to MSEE Track

College

College of Engineering and Computer Science

Department

Department of Electrical and Computer Engineering

Track Website

http://www.ece.ucf.edu/

Track Handbook

Electrical Engineering MSEE

Track Contact Information

Kalpathy Sundaram PhD
Professor
ece-grad@cecs.ucf.edu
Telephone: 407-823-5326
HEC 439B

Is this track available 100% online?

No
**Licensure Disclosure**

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit [https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Electrical-Engineering-MS.pdf](https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Electrical-Engineering-MS.pdf).

**Track Description**

The accelerated undergraduate/graduate program in Electrical Engineering allows highly qualified undergraduate majors in Electrical Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program.

Students in the Electrical Engineering degree programs receive a broad background in areas such as communications, controls/robotics, digital signal processing, electromagnetics, power electronics and electronics, electro-optics/photonics, solid state and microelectronics while specializing in a research area of their interest. Research interests of the Electrical Engineering faculty include antennas, microwave and millimeter circuits and devices, communication systems, digital signal/image processing, power electronics, electronic circuits, IFF devices, electromagnetic theory, radar and microwave remote sensing, speech processing, VLSI design, spread spectrum systems, SAW and ACT devices, spectral estimation, solid state device modeling and computer-aided design (CAD) techniques, communication networks, integrated services digital networks, neural networks, systems and controls, robotics, robust control, computer control, microelectronics, semiconductors, thin films, power system stability, bipolar device modeling, solid state lasers, optical propagation, fiber optics, optical signal processing, laser-induced damage, optical testing, diffractive optics, phase conjugation, infrared detectors, Fourier optics, lens design, and nonlinear optics.

Up to 12 credit hours of approved 5000- and 6000-level courses of grades "B" (3.0) or better may be counted toward the BS and MS degrees.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

This track is available to University of Central Florida undergraduate majors in Electrical Engineering only.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The **Accelerated BS to MS program** in Electrical Engineering allows highly qualified University of Central Florida undergraduate majors in Electrical Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline, but were not previously part of this accelerated program, then they should apply to the **Electrical Engineering MS program** without a track selection. Additional information about this track may be located at: [https://grad.cecs.ucf.edu/academic-programs/accelerated-bs-ms-program/](https://grad.cecs.ucf.edu/academic-programs/accelerated-bs-ms-program/).

In addition to the general UCF graduate admission requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Electrical Engineering or a related discipline. This track is available to University of Central Florida undergraduates only.
- Two letters of recommendation.
- Résumé.
- Statement of educational, research, and professional career objectives.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research program.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*

2021-2022 Graduate Catalog
Undergraduate Requirements
0 Total Credits

- Application must be made no earlier than the semester after completing 60 credit hours toward the bachelor's degree yet before completing 90 credit hours. A minimum GPA of 3.5 is required prior to admission.

Elective Courses
24 Total Credits

- There are no required courses within a specialization area, however, all students (thesis and nonthesis) must choose at least 24 credit hours of formal courses, excluding research-related courses and Independent Study (XXX 6908) that emphasize their specialization area. Courses from outside specialization areas could also be chosen if they are approved by the student's adviser and incorporated into the Program of Study for the student. The Program of Study (POS) form must be approved by an adviser in the selected specialization area no later than the end of the second semester after admission. The program of study must meet all the university requirements specified in the graduate catalog and must also receive departmental-level and college-level approval.

Specialization Areas
24 Total Credits

- Complete 1 of the following
  - The Electrical Engineering Program supports a number of specialization areas. These technical areas are: Electromagnetics and Optics (EO), Signal Processing and Systems (SPS), and Micro-Systems and Nano-Systems (MNS). The Micro-Systems and Nano-Systems area covers the typical Electrical Engineering topic areas of Electronics, Power Electronics and Micro-Electronics, while the Signal Processing and Systems area covers the typical electrical topic areas of communications, controls, and signal processing. For each one of these areas there is a suggested list of courses stated below. Students are also allowed to take courses from other specialization areas, but the majority of their courses should be chosen from courses in their specialization area.
  - Electromagnetics and Optics (EO)
  - Earn at least 24 credits from the following:
    - EEE5542 - Random Processes I (3)
    - EEE5557 - Introduction to Radar Systems (3)
    - EEL5437C - Microwave Engineering (4)
    - EEL5437C - Microwave Engineering (4)
    - EEL5462 - Antenna Analysis and Design (3)
    - EEL5432 - Satellite Remote Sensing (3)
    - EEL6425C - RF and Microwave Measurement Techniques (4)
    - EEL6481 - Numerical Techniques in Electromagnetics (3)
    - EEL6482 - Electromagnetic Theory I (3)
    - EEL6489 - Advanced Topics in Electromagnetics and Microwaves (3)
    - EEL6504 - Communications Systems Design (3)
    - EEL6530 - Communication Theory (3)
    - MAP5426 - Special Functions (3)
    - MAP5435 - Advanced Mathematics for Engineers (3)
    - MAP6424 - Transform Methods (3)
    - OSE5041 - Introduction to Wave Optics (3)
    - OSE5414 - Fundamentals of Optoelectronic Devices (3)
    - OSE6111 - Optical Wave Propagation (3)
    - OSE6143 - Fiber Optics Communication System (3)
    - OSE6211 - Imaging and Optical Systems (3)
    - OSE6421 - Integrated Photonics (3)
    - OSE6432 - Guided Waves and Optoelectronics (3)
OSE6445 - Fundamentals of Ultrafast Optics (3)
OSE6455C - Photonics Laboratory (3)
OSE5525 - Laser Engineering (3)
OSE6615L - Optoelectronic Device Fabrication Laboratory (3)
OSE5525 - Laser Engineering (3)

Micro-Systems and Nano-Systems (MNS)
- Earn at least 24 credits from the following:
  - BME5572 - Biomedical Nanotechnology (3)
  - EEL5245 - Power Electronics (3)
  - EEE5332C - Thin Film Technology (3)
  - EEE5352 - Semiconductor Material and Device Characterization (3)
  - EEE5353 - Semiconductor Device Modeling and Simulation (3)
  - EEE5356C - Fabrication of Solid-State Devices (4)
  - EEE5370 - Operational Amplifiers (3)
  - EEE5378 - CMOS Analog and Digital Circuit Design (3)
  - EEE5390C - Full-Custom VLSI Design (3)
  - EEE5555 - Surface Acoustic Wave Devices and Systems (3)
  - EEE6317 - Power Semiconductor Devices and Integrated Circuits (3)
  - EEE6358 - Advanced Semiconductor Device I (3)
  - EEL6246 - Power Electronics II (3)
  - EEE6326C - MEMS Fabrication Laboratory (3)
  - EEE6338 - Advanced Topics in Microelectronics (3)

Signal Processing and Systems (SPS)
- Earn at least 24 credits from the following:
  - EEE5513 - Digital Signal Processing Applications (3)
  - EEE5542 - Random Processes I (3)
  - EEE5557 - Introduction to Radar Systems (3)
  - EEE5604 - Adaptive Digital Signal Processing (3)
  - EEL5820 - Image Processing (3)
  - EEL5825 - Pattern Recognition and Learning from Big Data (3)
  - EEL5630 - Digital Control Systems (3)
  - EEL5173 - Linear Systems Theory (3)
  - EEL5604 - Communications Systems Design (3)
  - EEL5630 - Communication Theory (3)
  - EEL5690 - Advanced Topics in Communications (3)
  - EEL6812 - Introduction to Neural Networks (3)
  - EEL6619 - Nonlinear Robust Control and Applications (3)
  - EEL6621 - Nonlinear Control Systems (3)
  - EEL6662 - Advanced Robotics (3)
  - EEL6667 - Mobile Robotic Systems (3)
  - EEL6671 - Modern and Optimal Control Systems (3)
  - EEL6674 - Optimal Estimation for Control (3)
  - EEL6616 - Adaptive Control (3)
  - EEL6683 - Cooperative Control of Networked Autonomous Systems (3)
  - EEL5669 - Introduction to Robotics and Autonomous Vehicles (3)
  - EEL6026 - Optimization of Engineering Systems (3)
  - CAP5415 - Computer Vision (3)
  - CAP6411 - Computer Vision Systems (3)
  - CAP6412 - Advanced Computer Vision (3)
  - CAP6419 - 3D Computer Vision (3)

Thesis/Nonthesis Option
6 Total Credits
- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - EEL 6971 - Thesis The thesis option requires 6 credit hours of thesis work (EEL 6971) in addition to the 24 credit hours of formal elective courses. Please note the following requirements for this option: - 24 credit hours of courses must be taken in the student's chosen specialization area. - No more than 6 credits of thesis (EEL 6971) will be counted toward the degree requirement. - At least half of the coursework, including Thesis XXX 6971, must be at the 6000-level (typically at least 15 credit hours). - Thesis students who are full time must continue to enroll in three credit hours of thesis coursework each semester until the thesis requirement is satisfied, beyond the minimum of 6 credit hours of thesis, but only 6 hours total will count toward the degree requirement. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the university-wide Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  - Nonthesis Option
    - Earn at least 6 credits from the following types of courses:
      - Additional Elective Coursework. The nonthesis option is especially suited for part-time students. Nonthesis students must complete 6 credit hours of electives in addition to the 24 credit hours of formal coursework
described above. If approved by the student's adviser, the student may include a total of 6 credit hours as an Independent Study (XXX 6908). At least half of the coursework must be at the 6000-level (typically at least 15 credit hours).

- Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of their portfolio of activities by the course withdrawal date of the semester prior to their intended graduation. Portfolio requirements are listed on the EECS website at http://www.eecs.ucf.edu/.

Grand Total Credits: 30

**Track Details**

**Graduate Requirements**

A complete application to the master's degree program must be received before admission deadlines of the semester in which the master's enrollment will commence. Students satisfy all requirements for master's admission in order to continue in the program once the bachelor's degree is awarded. At time of application for master's admission, students must specify BSMS-Accelerated as the master's degree track at time of graduate admission application to the MSEE program.

**Equipment Fee**

Students in the Electrical Engineering MSEE program pay a $63 equipment fee each semester that they are enrolled. Part-time students pay $31 per semester.

**Independent Learning**

The Independent Learning Requirement is met by successful completion of a master's thesis or an approved portfolio of activities for nonthesis students.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

**Electrical Engineering MSEE - Electrical Engineering MSEE, Guidance Control and Dynamics Track**

**College**

College of Engineering and Computer Science

**Department**

**Track Website**

http://www.ece.ucf.edu/

**Track Handbook**

Electrical Engineering MSEE
Track Contact Information

Jihua Gou PhD
Professor
jihua.gou@ucf.edu
Telephone: 407-823-2155
ENGR1 - 307

Is this track available 100% online?

Yes

UCF Online

Please Note: Electrical Engineering MSEE, Guidance Control and Dynamics Track may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Electrical-Engineering-MS.pdf.

Track Description

The Master of Science in Guidance, Control and Dynamics (MSEE) is designed to prepare students for careers as engineers in the Missile and Aerospace industries. The curriculum is developed with strong emphasis in courses related to guidance control and dynamics with applications in Electrical engineering.

The MSEE is awarded upon completion of a minimum of 30 credit hours, including 9 credit hours of required courses, 15 credit hours of elective courses selected from an approved list of courses, and an additional 6 credit hours in either a thesis or nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor’s Degree

Track Prerequisites

Bachelor’s degree in Electrical Engineering or closely related discipline.

A student with an undergraduate degree outside of the selected departmental discipline may also be required to satisfy an articulation program. Substitutions to the program of study must meet with the approval of the adviser and the department.

Prerequisites

- MAP 2302- Differential Equations
- EEL 3123C- Linear Circuits II
- EEL 3657- Linear Control Systems

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor’s degree in Electrical Engineering or closely related discipline with a minimum GPA 3.0.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MSEE graduate program director for further information.
Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
9 Total Credits

- Complete all of the following
  - Complete the following:
    - EML5271 - Intermediate Dynamics (3)
    - EEL5630 - Digital Control Systems (3)
  - Complete at least 1 of the following:
    - EEL5173 - Linear Systems Theory (3)
    - EML5311 - System Control (3)

Elective Courses
15 Total Credits

- Complete at least 5 of the following:
  - EAS6403C - Attitude Determination and Control (3)
  - EAS6415 - Guidance, Navigation and Control (3)
  - EAS6808 - Space Environment and Payload Instrumentation (3)
  - EEE5542 - Random Processes I (3)
  - EEL5432 - Satellite Remote Sensing (3)
  - EEL5669 - Introduction to Robotics and Autonomous Vehicles (3)
  - EEL6616 - Adaptive Control (3)
  - EEL6619 - Nonlinear Robust Control and Applications (3)
  - EEL6621 - Nonlinear Control Systems (3)
  - EEL6674 - Optimal Estimation for Control (3)
  - EEL6683 - Cooperative Control of Networked Autonomous Systems (3)
  - EML5152 - Intermediate Heat Transfer (3)
  - EML5237 - Intermediate Mechanics of Materials (3)
  - EML5713 - Intermediate Fluid Mechanics (3)
  - EML6155 - Convection Heat Transfer (3)
  - EML6157 - Radiation Heat Transfer (3)
  - EML6211 - Continuum Mechanics (3)
  - EML6223 - Advanced Vibrational Systems (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - EEL 6971 - Thesis The thesis option requires 30 credit hours, at least half of which must be at the 6000 level and will include 6 credit hours of thesis credit. A student pursuing the thesis program may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic. Students must register for the course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements
  - Nonthesis Option
    - Earn at least 6 credits from the following types of courses:
      - Additional hours of elective coursework. The nonthesis option is primarily designed to meet the needs of part-time students and requires 30 credit hours of course work, at least one-half of which must be at the 6000 level. *For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6908 Independent Study (3 credit hours) may be substituted as the student's learning experience. If the substitution of XXX 6908 is approved, a letter must be provided by the member of the faculty supervising the independent study.

Grand Total Credits: 30

Track Details

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. The program of study must be approved by the department and therefore students should consult with the ECE Graduate Director for assistance in filling out their program of study.

A student with an undergraduate degree outside of the selected departmental discipline may also be required to satisfy an articulation program. Substitutions to the program of study must meet with the approval of the adviser and the department.

Equipment Fee

Students in the MSEE program pay a $90 equipment fee each semester that they are enrolled.
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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https://funding.graduate.ucf.edu

Electrical Engineering PhD

College
College of Engineering and Computer Science

Department
Department of Electrical and Computer Engineering

Program Website
http://www.ece.ucf.edu/

Program Handbook
Electrical Engineering PhD

Program Contact Information
Kalpathy Sundaram PhD
Professor
eece-grad@cecs.ucf.edu
Telephone: 407-823-5326
HEC 439B

Is this program available 100% online?
No

Licensure Disclosure
This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Engineering-Management-PhD.pdf.
Program Description

The Electrical Engineering PhD (one of the three PhD programs offered by the School of EECS) prepares students for careers in research or academia with specializations including Communications, Digital Signal Processing/Image Processing, Controls and Robotics, Electromagnetics, Electro-Optics, Photonics, Power Electronics and Electronics, Solid-State/Microelectronics, and VLSI Design.

The specific research that each one of the EECS faculty conduct can be found at the School of EECS website (www.eecs.ucf.edu).

The Doctor of Philosophy in Electrical Engineering is primarily intended for students with a master’s degree in Electrical Engineering or a closely related discipline who wish to pursue a career in research or academia. Specializations include Communications, Digital Signal Processing/Image Processing, Controls and Robotics, Electromagnetics, Electro-Optics, Photonics, Power Electronics and Electronics, and Solid-State/Microelectronics.

Research interests of the Electrical Engineering faculty include antennas, microwave and millimeter circuits/devices, communication systems, digital signal/image processing, power electronics, electronic circuits, IFF devices, electromagnetic theory, radar and microwave remote sensing, speech processing, VLSI design, spread spectrum systems, SAW and ACT devices, spectral estimation, solid state device modeling and computer-aided design (CAD) techniques, communication networks, integrated services digital networks, neural networks, systems and controls, robotics, robust control, computer control, microelectronics, semiconductors, thin films, power system stability, bipolar device modeling, solid state lasers, optical propagation, fiber optics, optical signal processing, laser-induced damage, optical testing, diffractive optics, phase conjugation, infrared detectors, Fourier optics, lens design, and nonlinear optics.

The Electrical Engineering PhD degree requires a minimum of 72 credit hours beyond the bachelor's degree. Of these 72 hours, a minimum of 36 credit hours must be formal coursework, exclusive of independent study coursework. A minimum of 15 credit hours with up to a maximum of 24 credit hours of dissertation hours can be credited toward the degree. No more than 12 credit hours of Independent Study are allowed. The remaining hours can be a combination of formal coursework and/or pre-candidacy doctoral research.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Bachelor's or Master's degree in Electrical Engineering or a closely related discipline.

Undergraduate articulation courses are required to be completed prior to admission for students who do not hold a Bachelor of Science degree in Electrical Engineering. In particular, the articulation courses specified below, plus all of the prerequisite string which any of them require, must be completed prior to admission. Grades of "B" or higher must be obtained in each articulation course specified below. Articulation courses are not eligible for inclusion on a graduate Program of Study.

- EEL 3123C Network and Systems
- EEE 3307C Electronics I
- EEL 3470 Electromagnetic Fields
- EEL 3552 Signal Analysis and Communications
- EEE 3350 Semiconductor Devices I

In addition, choose one of the following:

- EEL 3657 Linear Control Systems
- EEE 4309C Electronics II
- EEL 4750 Digital Signal Processing Fundamentals

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Résumé.
- Statement about educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research programs.

Additional courses may also be required to correct any course deficiencies. Students should contact the graduate program director for further information.
Graduate Application Deadlines

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Degree Requirements

Required Courses
36 Total Credits

- Complete 1 of the following
  - The Electrical Engineering Program supports a number of specialization areas. These technical areas are (in alphabetical order): Electromagnetics and Optics (EO), Signal Processing and Systems (SPS), and Micro-Systems and Nano-Systems (MNS). The Micro-Systems and Nano-Systems area covers the typical Electrical Engineering topic areas of Electronics, Power Electronics and Micro-Electronics, while the Signal Processing and Systems area covers the typical electrical topic areas of communications, controls, and signal processing. Please contact your graduate program assistant Nicole Mitchell at nicole@eecs.ucf.edu or 407-823-0378 for a list of faculty within each specialization area. For each one of these areas there is a suggested list of courses stated below. Students are also allowed to take courses from other specialization areas, but the majority of their courses should be chosen from courses in their specialization area.

Electromagnetics and Optics (EO) - Suggested Courses

- Earn at least 36 credits from the following:
  - EEE5542 - Random Processes I (3)
  - EEE5557 - Introduction to Radar Systems (3)
  - EEL5437C - Microwave Engineering (4)
  - EEL5439C - RF and Microwave Active Circuits (4)
  - EEL5462 - Antenna Analysis and Design (3)
  - EEL5462 - Antenna Analysis and Design (3)
  - EEL6425C - RF and Microwave Measurement Techniques (4)
  - EEL6482 - Electromagnetic Theory I (3)
  - EEL6481 - Numerical Techniques in Electromagnetics (3)
  - EEL6489 - Advanced Topics in Electromagnetics and Microwaves (3)
  - EEL6504 - Communications Systems Design (3)
  - EEL6530 - Communication Theory (3)
  - MAP5426 - Special Functions (3)
  - MAP5435 - Advanced Mathematics for Engineers (3)
  - MAP6424 - Transform Methods (3)
  - OSE5041 - Introduction to Wave Optics (3)
  - OSE5414 - Fundamentals of Optoelectronic Devices (3)
  - OSE6111 - Optical Wave Propagation (3)
  - OSE5115 - Interference and Diffraction (3)
  - OSE6143 - Fiber Optics Communication System (3)
  - OSE6211 - Imaging and Optical Systems (3)
- OSE6445 - Fundamentals of Ultrafast Optics (3)
- OSE6455C - Photonics Laboratory (3)
- OSE6615L - Optoelectronic Device Fabrication Laboratory (3)
- OSE5525 - Laser Engineering (3)

Micro-Systems and Nano-Systems (MNS) - Suggested Courses

Earn at least 36 credits from the following:

- BME5572 - Biomedical Nanotechnology (3)
- EEL5245 - Power Electronics (3)
- EEE5332C - Thin Film Technology (3)
- EEE5352 - Semiconductor Material and Device Characterization (3)
- EEE5353 - Semiconductor Device Modeling and Simulation (3)
- EEE5356C - Fabrication of Solid-State Devices (4)
- EEE5370 - Operational Amplifiers (3)
- EEE5378 - CMOS Analog and Digital Circuit Design (3)
- EEE5390C - Full-Custom VLSI Design (3)
- EEE5555 - Surface Acoustic Wave Devices and Systems (3)
- EEE6317 - Power Semiconductor Devices and Integrated Circuits (3)
- EEE6358 - Advanced Semiconductor Device I (3)
- EEL6246 - Power Electronics II (3)
- EEE6326C - MEMS Fabrication Laboratory (3)
- EEE6338 - Advanced Topics in Microelectronics (3)

Signal Processing and Systems (SPS) - Suggested Courses

Earn at least 36 credits from the following:

- EEE5513 - Digital Signal Processing Applications (3)
- EEE5542 - Random Processes I (3)
- EEE5557 - Introduction to Radar Systems (3)
- EEE6504 - Adaptive Digital Signal Processing (3)
- EEL5173 - Linear Systems Theory (3)
- EEL5630 - Digital Control Systems (3)
- EEL5669 - Introduction to Robotics and Autonomous Vehicles (3)
- EEL5820 - Image Processing (3)
- EEL5820 - Image Processing (3)
- EEL6026 - Optimization of Engineering Systems (3)
- EEL6504 - Communications Systems Design (3)
- EEL6530 - Communication Theory (3)
- EEL6590 - Advanced Topics in Communications (3)
- EEL6619 - Nonlinear Robust Control and Applications (3)
- EEL6621 - Nonlinear Control Systems (3)
- EEL6662 - Advanced Robotics (3)
- EEL6667 - Mobile Robotic Systems (3)
- EEL6671 - Modern and Optimal Control Systems (3)
- EEL6674 - Optimal Estimation for Control (3)
- EEL6616 - Adaptive Control (3)
- EEL6683 - Cooperative Control of Networked Autonomous Systems (3)
- EEL6812 - Introduction to Neural Networks (3)
- CAP5415 - Computer Vision (3)
- CAP6419 - 3D Computer Vision (3)
- CAP6411 - Computer Vision Systems (3)
- CAP6412 - Advanced Computer Vision (3)

Elective Courses
21 Total Credits

Earn at least 21 credits from the following types of courses:

Additional elective courses listed above. May include formal coursework, directed research hours, doctoral research hours, dissertation research, and no more than 12 credit hours of Independent Study.

Dissertation
15 Total Credits

Earn at least 15 credits from the following types of courses:

XXX 7980 Dissertation Research The program will only allow students to complete up to 24 hours of dissertation coursework in XXX 7980. The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the student's adviser and posted on the college's website at least two weeks before the defense date.

Qualifying Review
0 Total Credits

The Qualifying Review relies on annual appraisals of the student's progress conducted by the student's research/academic adviser and advisory committee, once formed. The student's appraisal template that the adviser completes will assess the student's academic performance (course performance) and research performance. On an annual basis, and based on the completed PhD Student Annual Review template, as well as additional student documentation attached with approval of the adviser, the EECS Graduate Committee will rate the student's performance as "Above Expectation," "At Expectation," or
"Below Expectation" toward the completion of the PhD degree. Students must pass the Qualifying Review no later than the deadline, which is the semester in which they complete 24 credit hours after admission or within two calendar years after admission, whichever occurs later. If a student has passed the Qualifying Review, then the student is eligible to continue PhD studies. However, a student who does not pass the Qualifying Review by the deadline will be dismissed from the degree program and will be given the opportunity to complete a master's degree (if applicable).

**Dissertation Committee**

0 Total Credits

- PhD Dissertation Committees for this degree program must have all of the below characteristics:
  - consist of at least five committee members including the committee chair
  - the committee chair must be either a Regular Appointment faculty member in EECS or a Secondary-Joint Appointment faculty member in EECS
  - at least 50% of committee members (when tabulated including the chair) must be EECS regular faculty
  - the majority of committee members must vote in favor of passing for the student to Pass
  - in addition to the above, all college and university requirements (such as one member outside of EECS) must be met. Joint faculty members may serve as committee chairs, but graduate faculty scholars may not serve as committee chairs.

**Candidacy Examination**

0 Total Credits

- After passing the Qualifying Review, students are required to successfully complete the candidacy examination in order to demonstrate readiness for preliminary research in a chosen field of study. This exam is administered by the student's dissertation advisory committee. Preparedness for taking the candidacy examination requires that the student must demonstrate his/her readiness for the PhD program in Electrical Engineering by authoring an accepted journal article or high-quality conference paper. The student must be the first author on this paper and the research advisor must also be an author on this paper to be used for Candidacy. The publication should reflect the work related to the student's PhD research. Candidacy is normally attempted at the completion of required coursework and must be passed before registering for doctoral dissertation hours (EEL 7980). Continuous enrollment in at least 3 hours of doctoral dissertation hours is required once a student starts taking dissertation credits.

**Admission to Candidacy**

0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours:
  - Completion of all required formal coursework, except for dissertation hours.
  - Successful completion of the candidacy examination.
  - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
  - Submission of an approved program of study. Signed and well-formed Doctoral Committee Candidacy Status form and associated paperwork (dissertation advisory committee and program of study, etc.) must be submitted to the Electrical and Computer Engineering Graduate Office for processing on or before the last day to defend Dissertation during the semester prior to enrolling in dissertation credits.

**Dissertation Proposal Exam**

0 Total Credits

- After passing the candidacy examination, the student will write a dissertation proposal and present it to the dissertation advisory committee for approval. The proposal must include a description of the research performed to date and the research planned to be completed for the dissertation. The presentation of a written dissertation proposal must be deemed as passing requirements by the majority of the dissertation committee.

Grand Total Credits: 72

**Program Details**

Formal coursework required is 36 credit hours, exclusive of independent study and research. A minimum of 15 credit hours of dissertation hours are required. All other credit hours will be determined with a faculty adviser. Students admitted with an earned master's degree may request to have up to 30 of those credit hours counted toward their doctoral program. The student's doctoral adviser in conjunction with the graduate office will determine the precise number of hours to be counted subject to Graduate Studies regulations.

The Program of Study (POS) form must be approved by an adviser in the selected specialization area no later than the end of the second semester after admission. The program of study must meet all the university requirements specified in the graduate catalog. Details about this program are located in the Electrical Engineering PhD Handbook.

**Equipment Fee**

Students in the Electrical Engineering PhD program pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 per semester.

**Independent Learning**

The Independent Learning Requirement is met by successful completion of the student's candidacy and dissertation defense examinations.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Engineering Management MSEM

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Program Website
http://www.iems.ucf.edu/

Program Handbook
Engineering Management MSEM

Program Contact Information

Mansooreh Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Is this program available 100% online?
Yes

UCF Online

Please note: Engineering Management (MS) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Engineering-Management-MS.pdf.
Program Description

The Master of Science in Engineering Management degree in Industrial Engineering focuses on effective decision-making in engineering and technological organizations.

The degree is offered on campus and can be taken entirely through the Florida Engineering Educational Delivery System (FEEDS), which provides video-streamed versions of classes over the internet.

The Professional Engineering Management (PEM) track is designated as a Professional Science Master's (PSM) degree. Please scroll to the bottom of this page for further details on this Track.

This program can be taken entirely through the Florida Engineering Educational Delivery System (FEEDS), which provides video-streamed versions of classes over the Internet.

The Engineering Management MSEM degree requires an undergraduate degree in Engineering or a closely related discipline. Students with undergraduate degrees outside of industrial engineering may be required to take additional prerequisites. An approved program of study must be developed in consultation with the graduate program director. The total number of hours is 30 credit hours.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Prerequisites

- Mathematics through Calculus II (MAP 2312)

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- The GRE is not required for admission to this program.
- Résumé or Curriculum Vita
- Goal statement
  - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a Master's degree in Industrial Engineering. Future educational and career goals after the completion of the applicant's master study should be discussed.
  - If the applicant is interested in completing a Master thesis, then the applicant must clearly describe the particular area of research interest. The applicant should identify at least one UCF faculty member who shares a similar research focus and is believed to be best suited to serve as a potential thesis advisor.
  - The goal statement should be between 500 and 1,000 words.
- Two letters of recommendation
  - The letters of recommendation should be from faculty members, university administrators, and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of the applicant. The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program. Letters for Master's thesis students must discuss the applicant's ability to perform graduate-level research.
  - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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Degree Requirements

Required Courses

9 Total Credits

- Complete the following:
  - EIN5140 - Project Engineering (3)
  - ESI6551 - Systems Engineering (3)
  - EIN6357 - Advanced Engineering Economic Analysis (3)

Concentration Courses

9 Total Credits

- Complete the following:
  - EINS108 - The Environment of Technical Organizations (3)
  - EIN6370 - Innovation in Engineering Design (3)
  - EIN6182 - Engineering Management (3)

Thesis/Nonthesis Option

12 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 12 credits from the following types of courses:
      - EIN 6971 - Thesis - 6 Credit Hours Additional Elective Coursework - 6 Credit Hours  
        Thesis students must complete an independent research project and then write and successfully defend their thesis.  
        Furthermore, an additional 6 credit hours of electives are required beyond the 18 credit hours of required courses described above.
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 9 credits from the following types of courses:
        Additional Elective Coursework - 9 Credit Hours  
        Nonthesis students must take 9 additional credit hours of electives beyond the 21 credit hours of required courses described above.
      - Complete the following:
        - EIN6950 - Industrial and Systems Engineering Capstone (3)
      - The nonthesis option requires a capstone course. The capstone course should be completed toward the end of the student's graduate plan of study.  
        As part of the requirements of this course, the student will complete an independent capstone project on a topic relevant to the industrial and systems engineering field and approved by the instructor.  
        Students are expected to use and leverage knowledge obtained in the program to complete the project.  
        This course serves as the culminating experience for students and shows their engagement in independent learning.

Grand Total Credits: 30

Program Details

Equipment Fee

Students in the Engineering Management MSEM program pay a $90 equipment fee each semester that they are enrolled. For part-time students, the equipment fee is $45 per semester.

Independent Learning

A research project serves as the independent learning experience for thesis students. Nonthesis students are required to complete the department's capstone course toward the end of their program.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Engineering Management MSEM - Engineering Management MSEM, Professional Project and Systems Engineering Track

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Track Website
http://www.iems.ucf.edu/graduate/programs

Track Contact Information

Mansooreh Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Is this track available 100% online?
No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Engineering-Management-MS.pdf.
Track Description

The Professional Project & Systems Engineering (PP&SE) Track is a cohort-based program that offers a customized and personalized approach to learning engineering management with a curriculum developed based upon the needs of industry. The PP&SE Track is designed to be a lock-step, cohort-based program that can be completed in 18 to 24 months. For information about the start of the next cohort, please contact the PP&SE Program Director Dr. Timothy Kotnour (timothy.kotnour@ucf.edu).

The PP&SE track in the Master of Science in Engineering Management (MSEM) program focuses on effective decision-making and successful project delivery of innovative solutions in engineering and technological organizations. The program is tailored to the needs of the experienced, working early and mid-career professionals.

The MSEM program requires an undergraduate degree in engineering or a closely related discipline. Students with undergraduate degrees outside of industrial engineering may be required to take additional prerequisite courses.

Research studies are required in one or more courses. The research study and report will focus on reviewing and analyzing contemporary research in the profession in order to help students acquire knowledge and skills pertaining to research-based best practices.

Courses may be substituted or added to provide domain depth based upon the student or customer's needs.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

A bachelor's degree in Engineering or a closely related discipline.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Engineering or a closely related discipline.
- The GRE is not required for admission to this program.
- A letter of recommendation from the corporate sponsor.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

For information about the start of the next cohort, please contact the PP&SE Program Director Dr. Timothy Kotnour (timothy.kotnour@ucf.edu).

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Master Core Courses**
9 Total Credits

- Complete the following:
  - EIN5140 - Project Engineering (3)
  - ESI6551 - Systems Engineering (3)
  - EIN6357 - Advanced Engineering Economic Analysis (3)

**Elective Courses**
27 Total Credits

- Complete the following:
  - EIN5108 - The Environment of Technical Organizations (3)
  - EIN5117 - Management Information Systems I (3)
  - EIN6182 - Engineering Management (3)
  - EIN6326 - Technology Strategy (3)
  - EIN6370 - Innovation in Engineering Design (3)
  - ESI5219 - Engineering Statistics (3)
  - ESI6358 - Decision Analysis (3)
  - ESI6511 - Systems Integration and Testing (3)
  - ESI6552 - Systems Architecture (3)

**Comprehensive Examination**
0 Total Credits

- Students must successfully pass an oral comprehensive examination as part of a capstone exercise (usually in the form of EIN 6182 - Engineering Management) to satisfy all degree requirements. In some instances, industry might require students to participate in a capstone course to integrate the material in a specific project related to the industry sponsor's needs. Typically, this additional class is in the form of EIN 6950 - Industrial and Systems Engineering Capstone which is a 3-credit hour course. Please see the program director for cohort-specific details.

Grand Total Credits: **36**

**Track Details**

**Equipment Fee**

Students in the Engineering Management MSEM program pay a $90 equipment fee each semester that they are enrolled. For part-time students, the equipment fee is $45 per semester.

**Independent Learning**

The Independent Learning Requirement is met by successful completion of the research studies required in individual courses, EIN 6182 - Engineering Management, and the capstone project, which requires that students integrate material from all the courses in their program.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

2021-2022 Graduate Catalog
Environmental Engineering MS

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Program Website
http://www.cece.ucf.edu/graduate/

Program Handbook
Environmental Engineering MS

Program Contact Information
Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this program available 100% online?
Yes

UCF Online
Please Note: Environmental Engineering MS may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure
This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Environmental-Engineering-MS.pdf.
Program Description
The Master of Science in Environmental Engineering program is for students with science, math, or a similar background, and usually requires a number of undergraduate engineering courses as articulation to become fully prepared for graduate work in environmental engineering.

Applicants to the program are expected to be knowledgeable in topics including chemistry, process design, water resources, and air pollution. The program focuses on pollution control, pollution prevention, and the correction of pollution effects on natural and man-made environments.

The program is noted for its strong faculty research interests, and areas of study include drinking water treatment, wastewater treatment, solid and hazardous waste management, atmospheric pollution control and modeling, community noise abatement, and stormwater management. The program’s overall mission is to prepare students for careers in environmental engineering with consulting firms; within industry; within federal, state, and local governments; and/or in higher education.

The program’s overall mission is to prepare students for Environmental Engineering careers in federal, state, and local governments; higher education; consulting; and industry.

Other key objectives include:
- Producing graduates who have technical knowledge in critical areas of environmental engineering
- Providing a professional engineering education that challenges our graduates to think critically
- Forming and maintaining partnerships with industry, government agencies, and professional organizations
- Developing awareness of the changing environmental needs of society and the global environment.

This degree has 2 tracks: Accelerated BS to MS Track and Environmental Engineering Sciences Track. Please scroll to the bottom of this page for further details on these Tracks.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Graduate School Contact
Jaylin Hudgen
gradadmissions@ucf.edu
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Millican Hall 230
Online Application
Graduate Admissions

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
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Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Environmental Engineering MS - Environmental Engineering MS, Accelerated BS to MS Track

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Track Website
http://www.cece.ucf.edu/graduate/

Track Handbook
Environmental Engineering MS

Track Contact Information

Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this track available 100% online?
No

Licensure Disclosure
This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Environmental-Engineering-MS.pdf.
**Track Description**

The Environmental Engineering MS, Accelerated BS to MS Track is for students with science, math, or a similar background, and usually requires a number of undergraduate engineering courses as articulation to become fully prepared for graduate work in environmental engineering. See undergraduate engineering major requirements in the Undergraduate Catalog.

The program allows highly qualified undergraduate majors in Civil Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program.

Applicants to the program are expected to be knowledgeable in topics including chemistry, process design, water resources, and air pollution. The program focuses on pollution control, pollution prevention, and the correction of pollution effects on natural and man-made environments.

The program is noted for its strong faculty research interests, and areas of study include drinking water treatment, wastewater treatment, solid and hazardous waste management, atmospheric pollution control and modeling, environmental water resources, and stormwater management. The program's overall mission is to prepare students for careers in environmental engineering with consulting firms; with industry; within federal, state, and local governments; and/or in higher education.

The program's overall mission is to prepare students for Environmental Engineering careers in federal, state, and local governments; higher education; consulting; and industry.

Other key objectives include:

- Producing graduates who have technical knowledge in critical areas of environmental engineering
- Providing a professional engineering education that challenges our graduates to think critically
- Forming and maintaining partnerships with industry, government agencies, and professional organizations
- Developing awareness of the changing environmental needs of society and the global environment.

**Track Prerequisites**

A Bachelor of Science degree in civil engineering or another closely related engineering degree from UCF.

**Prerequisites (Articulation)**

The completion of prerequisite courses may be required before students can begin the program graduate coursework.

The following mathematics prerequisite requirement is for all students.

- Calculus through Differential Equations

The following prerequisites (or equivalent courses) may be required for students with appropriate science or math undergraduate degrees.

- ENV 3001 - Introduction to Environmental Engineering 3 Credit Hours
- CWR 3201 - Engineering Fluid Mechanics 3 Credit Hours
- STA 3022 - Probability and Statistics for Engineers 3 Credit Hours
- CWR 4202 - Hydraulics 3 Credit Hours
- CWR 4120 - Hydrology 3 Credit Hours
- EES 4111C - Biological Process Control 3 Credit Hours
- EES 4202C - Chemical Process Control 3 Credit Hours
- EGN 3613 - Engineering Economic Analysis 2 Credit Hours
- ENV 4120 - Air Pollution Control 3 Credit Hours
- ENV 4531 - Environmental Engineering Operations and Processes I 3 Credit Hours

**Application Requirements**

The Environmental Engineering MS, Accelerated BS to MS Track allows highly qualified University of Central Florida undergraduate majors in Civil Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but was not previously part of this accelerated program, then they should apply to the Environmental Engineering MS.

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their graduate program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.
Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Environmental Engineering Sciences, Accelerated BS to MS</th>
<th>*Fall Priority</th>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

**Andrew Randall PhD PE**  
Professor  
andrew.randall@ucf.edu  
Telephone: 407-823-6429  
Engineering II, 211-L

**Ana Lucia Salas**  
Graduate Student Services Coordinator  
AnaLucia.Salas@ucf.edu  
Telephone: 407-823-1299  
Engineering II, 211-K
Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ENV6016 - Biological Treatment Systems in Environmental Engineering (3)
    - ENV6015 - Physical/Chemical Treatment Systems in Environmental Engineering (3)
  - Complete at least 1 of the following:
    - ENV6519 - Aquatic Chemical Processes (3)
    - ENV6616 - Ecological Engineering and Receiving Water Impacts (3)
    - ENV5410 - Water Treatment (3)
    - EES5318 - Industrial Ecology (3)
    - ENV6558 - Industrial Waste Treatment (3)
  - Earn at least 3 credits from the following types of courses:
    Any CWR course at the 5000 or 6000 level 3 Credit Hours. See "Courses" on the left-hand menu.

Elective Courses
12 Total Credits

- Earn at least 12 credits from the following types of courses:
  All students, both thesis and nonthesis, must take 12 credit hours of elective courses. The electives should be chosen from courses with ENV or CWR prefixes although other appropriate graduate-level courses (5000 or 6000) may be allowed. All electives must be chosen with the consent of the student's adviser.

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      XXX 6971 - Thesis The thesis option requires that students conduct an approved research study, write and successfully defend a thesis. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        The nonthesis option requires 6 more credit hours of electives in addition to the 12 credit hours of electives described above.
        Nonthesis students are required to take at least one course with an asterisk. This criteria is fulfilled by taking the required ENV 6106 - Theory and Practice of Atmospheric Dispersion Modeling course. It is also met by the elective courses: ENV 6106 - Theory and Practice of Atmospheric Dispersion Modeling 3 Credit Hours * ENV 6126 - Design of Air Pollution Controls 3 Credit Hours * Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Grand Total Credits: 30

Track Details

At least 24 credit hours of the course work must be exclusive of thesis and research, and Directed Research (XXX 6918) is not permitted in MS program of study.

The thesis option is primarily for students who can devote a full-time effort to their research and is required for all students supported on contracts and grants, as well as any student receiving department financial support. The nonthesis option is strongly recommended for part-time students and requires an end-of-program portfolio as a requirement for graduation.

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession. They are intended to help students acquire knowledge and skills pertaining to best practices in that specialization area.

Equipment Fee

Students in the Environmental Engineering MS program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses marked with an asterisk (*), denoting an independent learning experience, and an end-of-program portfolio.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Environmental Engineering MS - Environmental Engineering MS, Environmental Engineering Sciences Track

College

College of Engineering and Computer Science

Department

Department of Civil, Environmental, and Construction Engineering

Track Website

http://www.cece.ucf.edu/graduate/

Track Handbook

Environmental Engineering MS

Track Contact Information

Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this track available 100% online?

Yes

UCF Online

Please Note: Environmental Engineering MS may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit [https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Environmental-Engineering-MS.pdf](https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Environmental-Engineering-MS.pdf).

Track Description

The Environmental Engineering Sciences track in the Environmental Engineering MS program is for students with science, math, or a similar background, and usually requires a number of undergraduate engineering courses as articulation to become fully prepared for graduate work in environmental engineering.

Applicants to the program are expected to be knowledgeable in topics including chemistry, process design, water resources, and air pollution. The program focuses on pollution control, pollution prevention, and the correction of pollution effects on natural and man-made environments.

The program is noted for its strong faculty research interests, and areas of study include drinking water treatment, wastewater treatment, solid and hazardous waste management, atmospheric pollution control and modeling, environmental water resources, and stormwater management. The program’s overall mission is to prepare students for careers in environmental engineering with consulting firms; with industry; within federal, state, and local governments; and/or in higher education.

Other key objectives include:

- Producing graduates who have technical knowledge in critical areas of environmental engineering
- Providing a professional engineering education that challenges our graduates to think critically
- Forming and maintaining partnerships with industry, government agencies, and professional organizations
- Developing awareness of the changing environmental needs of society and the global environment.

The Environmental Engineering Sciences track offers both thesis and nonthesis options with each requiring 30 credit hours of courses beyond the baccalaureate degree. Students choosing the thesis option must take 12 credit hours of required courses, 12 credit hours of electives, and 6 thesis credit hours. Students choosing the nonthesis option must take 12 credit hours of required courses, 18 credit hours of electives, and submit an end-of-program portfolio. Students develop an individualized program of study with a faculty adviser.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor’s Degree**

Track Prerequisites

Those applying to the programs without a directly related undergraduate degree should closely check the prerequisites. For students with nontechnical undergraduate degrees, it is recommended that a second undergraduate degree in Environmental Engineering be completed before applying to graduate school.

Articulation requirements will be determined by the department as part of the admission process and may be modified after discussion with the student and the advisor.

**Prerequisites (Articulation)**

The completion of prerequisite courses may be required before students can begin the program graduate coursework.

The following mathematics prerequisite requirement is for all students.

- Calculus through Differential Equations

The following prerequisites (or equivalent courses) may be required for students with appropriate science or math undergraduate degrees.

- ENV 3001 - Introduction to Environmental Engineering 3 Credit Hours
- CWR 3201 - Engineering Fluid Mechanics 3 Credit Hours
- STA 3032 - Probability and Statistics for Engineers 3 Credit Hours
- CWR 4202 - Hydraulics 3 Credit Hours
- CWR 4120 - Hydrology 3 Credit Hours
- EES 4111C - Biological Process Control 4 Credit Hours
- EES 4202C - Chemical Process Control 4 Credit Hours
- EGN 3613 - Engineering Economic Analysis 2 Credit Hours
- ENV 4120 - Air Pollution Control 3 Credit Hours
- ENV 4531 - Environmental Engineering Operations and Processes I 3 Credit Hours
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their graduate program.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

Those applying to the programs without a directly related undergraduate degree should closely check the prerequisites. For students with nontechnical undergraduate degrees, it is recommended that a second undergraduate degree in Environmental Engineering be completed before applying to graduate school.

Articulation requirements will be determined by the department as part of the admission process and may be modified after discussion with the student and the advisor.

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ENV6016 - Biological Treatment Systems in Environmental Engineering (3)
    - ENV6015 - Physical/Chemical Treatment Systems in Environmental Engineering (3)
  - Complete at least 1 of the following:
    - ENV6519 - Aquatic Chemical Processes (3)
    - ENV6616 - Ecological Engineering and Receiving Water Impacts (3)
    - ENV5410 - Water Treatment (3)
    - EES5318 - Industrial Ecology (3)
    - ENV6558 - Industrial Waste Treatment (3)
  - Earn at least 3 credits from the following types of courses:
    Any CWR course at the 5000 or 6000 level 3 Credit Hours. See "Courses" on the left-hand menu.

Elective Courses
12 Total Credits

- Earn at least 12 credits from the following types of courses:
  All students, both thesis and nonthesis, must take 12 credit hours of elective courses. The electives should be chosen from courses with ENV or CWR prefixes although other appropriate graduate-level courses (5000 or 6000) may be allowed. All electives must be chosen with the consent of the student's adviser.

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      XXX 6971 - Thesis The thesis option requires that students conduct an approved research study, write and successfully defend a thesis. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        The nonthesis option requires 6 more credit hours of electives in addition to the 12 credit hours of electives described above.
        Nonthesis students are required to take at least one course with an asterisk. This criteria is fulfilled by taking the required ENV 6106 - Theory and Practice of Atmospheric Dispersion Modeling course. It is also met by the elective courses: ENV 6106 - Theory and Practice of Atmospheric Dispersion Modeling 3 Credit Hours * ENV 6126 - Design of Air Pollution Controls 3 Credit Hours * Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Grand Total Credits: 30

Track Details

At least 24 credit hours of the course work must be exclusive of thesis and research, and Directed Research (XXX 6918) is not permitted in MS program of study.

The thesis option is primarily for students who can devote a full-time effort to their research and is required for all students supported on contracts and grants, as well as any student receiving department financial support. The nonthesis option is strongly recommended for part-time students and requires an end-of-program portfolio as a requirement for graduation.

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession. They are intended to help students acquire knowledge and skills pertaining to best practices in that specialization area.

Equipment Fee

Students in the Environmental Engineering MS program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses marked with an asterisk (*), denoting an independent learning experience, and an end-of-program portfolio.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Environmental Engineering MSEnvE

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Program Website
http://www.cece.ucf.edu/graduate/

Program Handbook
Environmental Engineering MSEnvE

Program Contact Information

Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this program available 100% online?

Yes

UCF Online

Please Note: Environmental Engineering MSEnvE may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Environmental-Engineering-MSVE.pdf.

Program Description

The Master of Science in Environmental Engineering program was created for students who have an undergraduate degree in environmental engineering or any other closely related degree in engineering. Applicants are expected to be knowledgeable in topics including chemistry, process design, water resources, and air pollution. The program focuses on pollution control, pollution prevention, and the correction of pollution effects on natural and man-made environments.

The program is noted for its strong faculty research interests, and areas of study include drinking water treatment, wastewater treatment, solid and hazardous waste management, atmospheric pollution control and modeling, environmental water resources, and stormwater management. The program's overall mission is to prepare students for careers in environmental engineering with consulting firms; with industry; within federal, state, and local governments; and/or in higher education.

The program's overall mission is to prepare students for Environmental Engineering careers in federal, state, and local governments; higher education; consulting; and industry. Other key objectives include:

- Producing graduates who have technical knowledge in critical areas of environmental engineering
- Providing a professional engineering education that challenges our graduates to think critically
- Forming and maintaining partnerships with industry, government agencies, and professional organizations
- Developing awareness of the changing environmental needs of society and the global environment.

The Environmental Engineering MSEnvE program offers both thesis and nonthesis options with each requiring 30 credit hours of courses beyond the bachelor's degree. Prerequisites are required depending upon the discipline of a student's bachelor's degree. The thesis option is primarily for those who can devote a full-time effort to their research project and is required for all students supported by contracts and grants, as well as any student receiving department financial support. The nonthesis option is recommended strongly for part-time students and requires submission of an end-of-program portfolio as a requirement for graduation.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Those applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Students with nontechnical undergraduate degrees are recommended to complete a second undergraduate degree in Environmental Engineering before applying to graduate school.

Final articulation requirements will be determined by the department after students have been admitted and after discussions with their advisers.

Prerequisites (Articulation)

The completion of prerequisite courses may be required before students can begin program course work. Please contact the program director to review your background and determine the prerequisites that you may need to take.

The following mathematics prerequisite requirement is for all students.

- Calculus through Differential Equations

The following prerequisites may be required for students with undergraduate degrees in Civil, Mechanical, or Chemical Engineering. Equivalent courses may be acceptable.

- ENV 3001 Introduction to Environmental Engineering 3 Credit Hours
- STA 3032 Probability and Statistics for Engineers 4 Credit Hours
- CWR 4202 Hydraulics 3 Credit Hours
- ENV 4120 Air Pollution Control 3 Credit Hours
- ENV 4531 Environmental Engineering Operations and Processes I 3 Credit Hours

The following prerequisites may be required for students with undergraduate degrees in other Engineering disciplines.

- ENV 3001 Introduction to Environmental Engineering 3 Credit Hours
- STA 3032 Probability and Statistics for Engineers 3 Credit Hours
- CWR 4202 Hydraulics 3 Credit Hours
- CWR 4120 Hydrology 3 Credit Hours
- EES 4111C Biological Process Control 3 Credit Hours
- EES 4202C Chemical Process Control 3 Credit Hours
- ENV 4120 Air Pollution Control 3 Credit Hours
- ENV 4531 Environmental Engineering and Processes I 3 Credit Hours
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admissions decisions are made on the basis of a complete online application only, and not on the basis of any pre-screening. Prospective applicants who are encouraged to apply to their intended graduate program based on the information provided for their pre-screening are not assured of admission or financial assistance when they submit a complete online application. Although it is possible, it is not likely, that prospective applicants who are discouraged from formally applying to a graduate program at the pre-screening stage will be admitted if they elect to submit a complete online application anyway.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research programs.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

Those applying to the programs without a directly related undergraduate degree should closely check the prerequisites. Students with nontechnical undergraduate degrees are recommended to complete a second undergraduate degree in Environmental Engineering before applying to graduate school.

Final articulation requirements will be determined by the department after students have been admitted and after discussions with their advisers.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-5692
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ENV6015 - Physical/Chemical Treatment Systems in Environmental Engineering (3)
    - ENV6015 - Physical/Chemical Treatment Systems in Environmental Engineering (3)
  - Complete at least 1 of the following:
    - ENV6558 - Industrial Waste Treatment (3)
    - ENV5410 - Water Treatment (3)
    - EES5318 - Industrial Ecology (3)
  - Earn at least 3 credits from the following types of courses:
    Any CWR course at the 5000 or 6000 level

Non Thesis Students - Required Course Selection
0 Total Credits

- Nonthesis students are required to take at least one course that provides an independent learning experience for students, consisting of a research or design project. This requirement is fulfilled in the required course ENV 6016 above and is also fulfilled by the elective course ENV 6126 Design of Air Pollution Controls* (3 credit hours) and the elective course ENV 6106 Theory and Practice of Atmospheric Dispersion Modeling (3 credit hours).

Elective Courses
12 Total Credits

- Earn at least 12 credits from the following types of courses:
  All students, both thesis and nonthesis, are required to take 12 credit hours of elective courses. Courses that comprise the elective part of the program are selected in accordance with the general requirements of the College of Engineering and Computer Science and often include courses taken from the following two sub-discipline areas: Environmental Specialization—Any of the appropriate ENV graduate-level courses (5000 or 6000) with the consent of the student's adviser Water Resources Specialization—Any of the appropriate CWR graduate-level courses (5000 or 6000) with the consent of the student's adviser

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      XXX 6971 - Thesis Thesis students are expected to complete an independent research project and then write and successfully defend their thesis. The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the Events Calendar and on the College of Graduate Studies website at least two weeks before the defense date.
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        Nonthesis students must take 6 more credit hours of electives in addition to the 12 credit hours of electives described above.
        Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Grand Total Credits: 30
Program Details

Students choosing the thesis option must take 12 credit hours of required credit hours of electives, and 6 thesis credit hours. Students choosing the non-thesis option must take 12 credit hours of required courses, 18 credit hours of electives, and submit a portfolio (which includes a comprehensive final examination) before graduating.

Students develop an individualized program of study with a faculty adviser. At least 24 credit hours in the program of study must be earned exclusive of thesis and research courses and Directed Research (XXX 6918) is not permitted in the MSEnvE program of study.

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student's particular specialization within the profession in order to help students acquire knowledge and skills pertaining to best practices in that specialization area.

Equipment Fee

Students in the Environmental Engineering MSEnvE program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

Independent Learning

A research or design project serves as the independent learning experience for thesis students. Non-thesis students are required to take at least one of the courses marked with an asterisk (*), denoting an independent learning experience, and submit an end-of-program portfolio.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Environmental Engineering MSEnvE - Environmental Engineering MSEnvE, Accelerated BS to MSEnvE

College

College of Engineering and Computer Science

Department

Department of Civil, Environmental, and Construction Engineering

Track Website

http://www.cece.ucf.edu/graduate/

Track Handbook

Environmental Engineering MSEnvE
Is this track available 100% online?

No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Environmental-Engineering-MSVE.pdf.

Track Description

The Master of Science in Environmental Engineering, Accelerated BS to MSEnvE track was created for students who have an undergraduate degree in environmental engineering or any other closely related degree in engineering. Applicants are expected to be knowledgeable in topics including chemistry, process design, water resources, and air pollution. The program focuses on pollution control, pollution prevention, and the correction of pollution effects on natural and man-made environments.

The program allows highly qualified undergraduate majors in Civil Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program.

The program is noted for its strong faculty research interests, and areas of study include drinking water treatment, wastewater treatment, solid and hazardous waste management, atmospheric pollution control and modeling, environmental water resources, and stormwater management. The program's overall mission is to prepare students for careers in environmental engineering with consulting firms; with industry; within federal, state, and local governments; and/or in higher education.

The program's overall mission is to prepare students for Environmental Engineering careers in federal, state, and local governments; higher education; consulting; and industry. Other key objectives include:

- Producing graduates who have technical knowledge in critical areas of environmental engineering
- Providing a professional engineering education that challenges our graduates to think critically
- Forming and maintaining partnerships with industry, government agencies, and professional organizations
- Developing awareness of the changing environmental needs of society and the global environment.

The Environmental Engineering MSEnvE, Accelerated BS to MSEnvE track offers both thesis and nonthesis options with each requiring 30 credit hours of courses beyond the bachelor's degree. Prerequisites are required depending upon the discipline of a student's bachelor's degree. See undergraduate engineering major requirements in the Undergraduate Catalog.

The thesis option is primarily for those who can devote a full-time effort to their research project and is required for all students supported by contracts and grants, as well as any student receiving department financial support. The nonthesis option is recommended strongly for part-time students and requires submission of an end-of-program portfolio as a requirement for graduation.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor’s Degree**

Track Prerequisites

A Bachelor of Science degree in civil engineering or another closely related engineering degree from UCF.

Prerequisites (Articulation)

The following mathematics prerequisite requirement is for all students.

- Calculus through Differential Equations
Application Requirements

The **Accelerated BS to MSEnvE** track allows highly qualified University of Central Florida undergraduate majors in Civil Engineering to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but was not previously part of this accelerated program, then they should apply to the Environmental Engineering MSEnvE program.

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admissions decisions are made on the basis of a complete online application only, and not on the basis of any pre-screening. Prospective applicants who are encouraged to apply to their intended graduate program based on the information provided for their pre-screening are not assured of admission or financial assistance when they submit a complete online application. Although it is possible, it is not likely, that prospective applicants who are discouraged from formally applying to a graduate program at the pre-screening stage will be admitted if they elect to submit a complete online application anyway.

In addition to the general UCF graduate application requirements, applicants to this program must provide:
- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in civil engineering or another closely related engineering degree from UCF.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research programs.

The GRE is not required, however, taking the GRE is highly recommended for students wishing to pursue a thesis. In order to be considered for any fellowships, a GRE score is required.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

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gradadmissions@ucf.edu  
Telephone: 407-823-5692  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ENV6015 - Physical/Chemical Treatment Systems in Environmental Engineering (3)
    - ENV6016 - Biological Treatment Systems in Environmental Engineering (3)
  - Complete at least 1 of the following:
    - ENV6558 - Industrial Waste Treatment (3)
    - ENV5410 - Water Treatment (3)
    - EES5318 - Industrial Ecology (3)
  - Earn at least 3 credits from the following types of courses:
    Any CWR course at the 5000 or 6000 level

Non Thesis Students - Required Course Selection
0 Total Credits

- Nonthesis students are required to take at least one course that provides an independent learning experience for students, consisting of a research or design project. This requirement is fulfilled in the required course ENV 6016 above and is also fulfilled by the elective course ENV 6126 Design of Air Pollution Controls* (3 credit hours) and the elective course ENV 6106 Theory and Practice of Atmospheric Dispersion Modeling (3 credit hours).

Elective Courses
12 Total Credits

- Earn at least 12 credits from the following types of courses:
  All students, both thesis and nonthesis, are required to take 12 credit hours of elective courses. Courses that comprise the elective part of the program are selected in accordance with the general requirements of the College of Engineering and Computer Science and often include courses taken from the following two sub-discipline areas: Environmental Specialization—Any of the appropriate ENV graduate-level courses (5000 or 6000) with the consent of the student's adviser Water Resources Specialization—Any of the appropriate CWR graduate-level courses (5000 or 6000) with the consent of the student's adviser

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
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  - Nonthesis Option
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        Nonthesis students must take 6 more credit hours of electives in addition to the 12 credit hours of electives described above.
        Students are required to complete a culminating experience. The culminating experience for nonthesis MS students is submission of an end-of-program portfolio. The portfolio requirements are listed on the CECE website.

Grand Total Credits: 30
Track Details
Students choosing the thesis option must take 12 credit hours of required credit hours of electives, and 6 thesis credit hours. Students choosing the non-thesis option must take 12 credit hours of required courses, 18 credit hours of electives, and submit a portfolio (which includes a comprehensive final examination) before graduating.

Students develop an individualized program of study with a faculty adviser. At least 24 credit hours in the program of study must be earned exclusive of thesis and research courses and Directed Research (XXX 6918) is not permitted in the MSEnvE program of study.

Research studies or projects are required in one or more courses. The research study or project will focus on reviewing and analyzing contemporary research or engineering issues in a student’s particular specialization within the profession in order to help students acquire knowledge and skills pertaining to best practices in that specialization area.

Equipment Fee
Students in the Environmental Engineering MSEnvE program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

Independent Learning
A research or design project serves as the independent learning experience for thesis students. Nonthesis students are required to take at least one of the courses marked with an asterisk (*), denoting an independent learning experience, and submit an end-of-program portfolio.

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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https://funding.graduate.ucf.edu

Environmental Engineering PhD

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Program Website
http://www.cece.ucf.edu/graduate/

Program Handbook
Environmental Engineering PhD
Program Contact Information

Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this program available 100% online?
No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Environmental-Engineering-PhD.pdf.

Program Description

The Environmental Engineering PhD program focuses on pollution control, pollution prevention, and the correction of pollution effects on natural and man-made environments preparing students for careers in environmental engineering with consulting firms; with industry; within federal, state, and local governments; and/or in higher education.

Areas of study include drinking water treatment, astute treatment, solid and hazardous waste management, atmospheric pollution control and modeling, environmental water resources, and stormwater management. The program's mission is to prepare students for careers in environmental engineering with consulting firms; with industry; within federal, state, and local governments; and/or in higher education.

The program offers an intensive, individually tailored research program suitable for the development of an academic or similar research-oriented career. Graduates of the program will have technical knowledge in critical areas of environmental engineering, critical thinking skills, formed and maintained partnerships with industry, government agencies, and professional organizations, and have developed an awareness of the changing environmental needs of society and the global environment.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree 42 Credit Hours Minimum beyond the Master's Degree

Program Prerequisites

A bachelor's and/or master's degree in Environmental Engineering or a closely related discipline.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's and/or master's degree in Environmental Engineering or a closely related discipline.
- Résumé.
- The GRE is not required for admission to this program.
- Statement of educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Final articulation requirements will be determined by the department after students have been admitted and after discussions with their advisers.
Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

0 Total Credits

- At least 27 credit hours of formal course work is required, exclusive of research and independent study. For students entering the program with a completed master's degree, at least 15 of the 27 credit hours (exclusive of independent study and research) must be taken at UCF after the master's program, from approved formal courses. For students entering the program without a master's degree in Environmental Engineering or a closely related discipline, at least 45 credit hours of formal course work are required.

Required Courses

12 Total Credits

- Complete 4 of the following
  - All students completing the PhD program must take one course each from 4 of the 5 technical areas listed below for a total of 12 credit hours.
  - Water Process Engineering
    - Complete the following:
      - ENV6015 - Physical/Chemical Treatment Systems in Environmental Engineering (3)
  - Wastewater Process Engineering
    - Complete the following:
      - ENV6016 - Biological Treatment Systems in Environmental Engineering (3)
  - Waste Treatment/Water Treatment/Industrial Treatment
    - Complete at least 1 of the following:
      - Course Not Found
      - ENV6558 - Industrial Waste Treatment (3)
      - ENV5410 - Water Treatment (3)
      - EES5318 - Industrial Ecology (3)
  - Air Quality Modeling/Air Pollution Control
    - Complete at least 1 of the following:
      - ENV6106 - Theory and Practice of Atmospheric Dispersion Modeling (3)
      - ENV6126 - Design of Air Pollution Controls (3)
  - Water Resources
    - Complete all of the following
- Complete at least 1 of the following:
  - ENV5636 - Environmental and Water Resources Systems Analysis (3)
  - ENV6047 - Environmental Informatics and Remote Sensing (3)
  - Any CWR course at the 5000 or 6000 level may be used as well.

Elective Courses
42 Total Credits

- Complete all of the following
  - To be approved by a faculty adviser and the graduate coordinator Doctoral Research (XXX 7919) - 9 credit hours maximum (more than 9 research credit hours can be taken, but only a maximum of 9 credit hours will be counted toward the program of study). Independent Study (XXX 6908) - 3 credit hours maximum No more than a total of 12 credit hours of doctoral research plus independent study will be included in a program of study. Directed Research (XXX 6918) is not permitted in a PhD program of Study. Students can chose among the following courses with the consent of the academic adviser. Students that have no MS degree should complete the core courses for the MS degree in Environmental Engineering or Environmental Engineering Sciences. In addition, all elective courses will be 5000 or 6000 level courses. In addition, elective courses can be chosen from any of the following disciplines: Engineering: any 5000 or 6000 level course from any Engineering discipline. Typical electives come from Environmental Engineering (ENV courses), Water Resources Engineering (CWR courses), Civil Engineering, Construction Engineering, and Industrial Engineering. Non-Engineering: Statistics, Molecular Biology, Microbiology, Biochemistry, Organic Chemistry, General or Inorganic Chemistry, Biology, Math, and Physics. Suggested Elective Courses are included below

- Earn at least 42 credits from the following:
  - EES5318 - Industrial Ecology (3)
  - ENV5410 - Water Treatment (3)
  - ENV5505 - Sludge Management Operations in Environmental Engineering (3)
  - ENV5517 - Engineering Chemical and Biological Processes (3)
  - ENV5636 - Environmental and Water Resources Systems Analysis (3)
  - ENV6015 - Physical/Chemical Treatment Systems in Environmental Engineering (3)
  - ENV6016 - Biological Treatment Systems in Environmental Engineering (3)
  - ENV6046 - Membrane Mass Transfer (3)
  - ENV6030 - Environmental Biotechnology (3)
  - ENV6047 - Environmental Informatics and Remote Sensing (3)
  - ENV6106 - Theory and Practice of Atmospheric Dispersion Modeling (3)
  - ENV6126 - Design of Air Pollution Controls (3)
  - Course Not Found
  - Course Not Found
  - ENV6519 - Aquatic Chemical Processes (3)
  - ENV6558 - Industrial Waste Treatment (3)

Dissertation
18 Total Credits

- Earn at least 18 credits from the following types of courses:
  - ENV 7980

Examinations
0 Total Credits

- Students must pass three examinations. The first is the PhD qualifying examination. This examination must be taken within the first year of admission into the PhD program. It may be attempted no more than twice. In addition to the qualifying examination, students must pass the candidacy examination and the dissertation defense examination. The candidacy examination is normally taken near the end of the course work and consists of a written and oral presentation of a research proposal, and may include additional written or oral questioning by the committee. A copy of the written examination will be kept as part of the student's official record. The dissertation defense examination is an oral examination taken as defense of the written dissertation. The College of Engineering and Computer Science requires that all dissertation defense announcements be approved by the student's adviser and posted on the college's website and on the College of Graduate Studies Events Calendar at least two weeks before the defense date.

Admission to Candidacy
0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours. Evidence of meeting these requirements must be received by the College of Graduate Studies by the day before the first day of classes for the semester in which a student wishes to enroll in dissertation hours. Completion of all but 6 hours, or less, of course work, except for dissertation hours. Successful completion of the candidacy examination. Successful defense of the written dissertation proposal. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study.

Grand Total Credits: 72
Program Details

The Environmental Engineering PhD program is research oriented and requires a minimum of 72 credit hours beyond the bachelor's degree. Thirty of the 72 credit hours can be met with either a nonthesis or thesis MS in Environmental Engineering. This leaves 42 credit hours of which 18 credit hours must be Dissertation and a minimum of 15 credit hours must be formal course work. A maximum of 9 credit hours of Doctoral Research can be used in the doctoral program, which could be replaced by additional formal coursework.

For students not having an MS degree who directly enter the PhD program (BS to PhD), there will be a minimum of 45 credit hours formal coursework (i.e., 30 credit hours identical to the coursework for a nonthesis MS in Environmental Engineering plus a minimum of 15 credit hours course work past the MS). However, unlike MS students, BS to PhD students will be required to take only 4 of the 5 required courses from the nonthesis MS in Environmental Engineering requirements. In addition, these students can enroll for Doctoral Research credit hours during or after their first semester in the program. The 27 credit hours required in addition to the 45 credit hours coursework will be 18 credit hours in Dissertation Research, and a maximum of 9 credit hours in Doctoral Research. Up to 9 credit hours of Doctoral Research can be replaced by additional formal coursework subject to the approval of the PhD adviser and the advisory committee.

For both MS to PhD and BS to PhD students, the program of study must be developed with an advisory committee and meet with departmental approval at the beginning of the PhD program, at which time transfer credit will be evaluated on a course-by-course basis.

Equipment Fee

Full-time students in the Environmental Engineering PhD program pay $16 per semester for equipment used in the laboratories. Part-time students pay $8 per semester.

Independent Learning

The Independent Learning Requirement is met by successful completion of the student's candidacy and dissertation defense examinations.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Guidance Control and Dynamics Graduate Certificate

College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Program Website

http://www.mae.ucf.edu/
Is this program available 100% online?
Yes

UCF Online

Please Note: Guidance Control and Dynamics Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

This joint graduate certificate will provide higher-level courses in the areas of guidance, navigation, control and dynamics. Students joining the program will be introduced to concepts of nonlinear dynamics, optimal control, estimation, linear and nonlinear control with the higher-level understanding. Students will learn to synthesize theory and application at the graduate level in order to produce the knowledge base necessary to make an immediate impact in the aerospace, mechanical and electrical engineering industries.

The graduate certificate in guidance control and dynamics is awarded upon completion of a minimum of 12 credit hours, including 6 credit hours of required courses, and 6 credit hours of electives.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Bachelor's degree in Electrical Engineering or closely related discipline. A student with an undergraduate degree outside of the selected departmental discipline may also be required to satisfy an articulation program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in Electrical Engineering or closely related discipline with a minimum GPA 3.0
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Guidance Control and Dynamics</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tr>
<td>Domestic Applicants</td>
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<td>Jul 1</td>
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<tr>
<td>International Applicants</td>
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</tbody>
</table>
Degree Requirements

Required Courses
6 Total Credits

- Complete all of the following
  - Complete the following:
    - EML5271 - Intermediate Dynamics (3)
  - Complete at least 1 of the following:
    - EEL5173 - Linear Systems Theory (3)
    - EML5311 - System Control (3)

Elective Courses
6 Total Credits

- Complete at least 2 of the following:
  - EAS6405 - Advanced Flight Dynamics (3)
  - EAS6415 - Guidance, Navigation and Control (3)
  - EEL6671 - Modern and Optimal Control Systems (3)
  - EEL6674 - Optimal Estimation for Control (3)

Grand Total Credits: 12

Program Details

Substitutions to the program of study must meet with the approval of the adviser and the department.

Healthcare Systems Engineering Graduate Certificate

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Program Website
https://www.ucf.edu/online/degree/healthcare-systems-engineering/

Program Contact Information

Vernet Lasrado PhD
Director, HSE MS Track
vernet.lasrado@ucf.edu
Telephone: 404-769-5264
Engineering II, Room 312

Is this program available 100% online?
Yes

UCF Online

Please Note: The Healthcare Systems Engineering Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

The Healthcare Systems Engineering Graduate Certificate is a fully online degree program designed to be completed within one year. This 15-credit-hour program trains students to implement, manage and introduce systematic changes to improve patient care and enhance utilization of organizational resources. This unique program is offered in response to the growing needs of the healthcare industry.

Students will receive a Certificate, offered by the Department of Industrial Engineering and Management Sciences at the College of Engineering and Computer Science, in the Healthcare Systems Engineering Track.

This degree can help students realize their leadership potential, fuel their passion for healthcare innovation, and provide the necessary tools needed to make this systemic change a reality. Through the ideology and principles of systems engineering taught in this degree, individuals learn the specialized skills needed to foster operational change within healthcare organizations.

By completion, students will be able to help healthcare organizations to:

- Conduct analyses of large-scale social and ecological systems across the healthcare sector
- Assess and mitigate risks throughout organizational processes and relationships
- Analyze risks to individual and public health impacted by issues in the healthcare system
- Bring evidence-based thinking and analysis to process and system change
- Develop and manage a quality management system across an organizational setting
- Adapt information systems to improve management planning and control

Sampling of career opportunities include:

- Healthcare Management Engineer
- Operational Excellence Project Manager
- Systems Redesign Consultant
- Lean Specialist
- Process Improvement Consultant
- Continuous Improvement Specialist
- Healthcare Analyst

The Healthcare Systems Engineering Graduate Certificate requires 15 credit hours of courses beyond the bachelor's degree.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

An undergraduate course in probability and statistics

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vita
- Goal statement
  - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a graduate certificate in Industrial Engineering. Future educational and career goals after the completion of the applicant's certificate study should be discussed. The goal statement should be between 500 and 1,000 words.
- International Students
  - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
  - Given the fully online nature of this degree program, international students will not receive an F1 visa, hence you will not take this degree program in the US. International students are free to take this degree program from their home or any country besides the US.
  - Applications are accepted for the fall and spring terms only.
  - Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Graduate Application Deadlines

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<th>Healthcare Systems Engineering</th>
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2021-2022 Graduate Catalog
Graduate School Contact

Jaylin Hudgen  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Required Courses  
9 Total Credits
- Complete the following:
  - EIN5115 - Engineering MIS Control Systems in Healthcare  (3)  
  - ESI6551 - Systems Engineering  (3)  
  - HSC6636 - Issues and Trends in the Health Professions  (3)

Elective Courses  
6 Total Credits
- Complete all of the following
  - Complete at least 1 of the following:
    - ESI6609 - Industrial Engineering Analytics for Healthcare  (3)  
    - EIN6358 - Engineering Economic Analysis in Health Systems  (3)
  - Complete at least 1 of the following:
    - ESI6251C - Engineering Quality in Health Systems  (3)  
    - ESI6252C - Managing Engineering Risk in Health Systems  (3)

Grand Total Credits: 15

Program Details

Cost Per Credit Hour

For both in-state and out-of-state students, the cost is $1,239.16 per credit hour which includes tuition and fees.

*Fee subject to change.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120  
Telephone: 407-823-2827  
Appointment Line: 407-823-5285  
Fax: 407-823-5241  
finaid@ucf.edu  
http://finaid.ucf.edu
Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Industrial Engineering MS

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Program Website
http://www.iems.ucf.edu/

Program Handbook
Industrial Engineering MS

Program Contact Information
Mansooreh Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Is this program available 100% online?
Yes

UCF Online

Please note: Industrial Engineering (MS) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Industrial-Engineering-MS.pdf.

Program Description

The Master of Science programs in Industrial Engineering are designed to produce highly skilled graduates who are prepared to be industrial engineers, engineering managers or technical professionals, or leaders for the global economy, as well as preparing them for further graduate work or independent research.

Industrial Engineering, in its broad nature, focuses on the design and improvement of systems, products, and processes. A total systems approach is used to optimize the various aspects of operations in both manufacturing and service industries. Industrial engineers use many analytical approaches to improve productivity, safety, and quality of working life while reducing operating costs.

The Industrial Engineering programs are structured to support the emergence of Central Florida as a national center of high technology as well as supporting the diverse service industries in the region and throughout the nation.

In the Industrial Engineering MS programs, students are able to individually craft their programs of study and select their courses to focus on one or more of the following research areas.

Human Systems Engineering/Ergonomics
As technology has become more sophisticated, the need to design for the human user has become more difficult, yet even more important. Human engineering and ergonomics assist in ensuring that as technology advances, the abilities, limitations, and needs of humans are considered in the system design. This not only supports the needs of the user, it also optimizes the efficiency and usability of the system designed. Traditionally, ergonomics has been associated with biomechanical issues and work measurement and performance issues in physical system design, as well as occupational and industrial safety. The broader focus of human engineering encompasses those issues as well as incorporating the reaction and effectiveness of human interaction with systems, both physical systems and virtual systems such as computer-based models.

Research in the Human Systems Engineering and Ergonomics area provides students with the necessary knowledge in human engineering and ergonomics to effectively design tasks, industrial systems, and work environments that maximize human performance, safety, and overall productivity.

**Interactive Simulation and Training Systems**

The Interactive Simulation and Training Systems research within the Industrial Engineering MS program focuses on providing a fundamental understanding of significant topics relative to simulation systems and the requirements, design, development, and use of such systems for knowledge transfer in the technical environment. Courses in this area address the evolving and multiple discipline application of interactive simulation by providing a wealth of electives to support the development of individual student interests and talents. In conjunction with UCF’s Institute for Simulation and Training, industrial organizations involved in simulation in the Central Florida region, military organizations, and other governmental organizations, ISTS research in the MS program provides exposure to both military and commercial interactive simulation and training systems.

The emphasis is on the application and development of interactive simulation and training systems to meet various requirements including, but not limited to: simulators, skill trainers, organizational learning systems, computer and web-based interactive simulation systems and other novel interactive simulation efforts. Courses in the interactive simulation and training systems area prepare individuals with an undergraduate degree in engineering, science, education, psychology, mathematics or other related disciplines for careers in simulation, focusing particularly on the interactive simulation and training systems industries.

**Operations Research**

The Operations Research courses in the Industrial Engineering MS program uses mathematics and computer-based systems to model operational processes and decisions in order to develop and evaluate alternatives that will lead to gains in efficiency and effectiveness. Drawing on probability, statistics, simulation, optimization, and stochastic processes, Operations Research provides many of the analytic tools used by industrial engineers as well as by other analysts to improve processes, decision-making, and management by individuals and organizations. Research in this area is ideal for students who have an undergraduate degree in engineering, mathematics, or science. The knowledge in these courses builds on an undergraduate Engineering, Mathematics, or Science degree to develop a strong modeling and analytical capability to improve processes and decision-making.

**Quality Systems Engineering**

The Quality Systems Engineering research in the Industrial Engineering MS program focuses on providing the knowledge for improving product and process quality in manufacturing and service industries. Quality Systems Engineering provides both the quantitative tools for measuring quality and the managerial focus and organizational insight required to implement effective continuous improvement programs and incorporate the voice of the customer. The Quality Systems Engineering courses build on an undergraduate degree in industrial engineering or a closely related discipline to provide the necessary knowledge to plan, control, and improve the product assurance function in government, military, service, or manufacturing organizations.

**Simulation Modeling and Analysis**

The Simulation Modeling and Analysis research and studies in the Industrial Engineering MS program focus on providing a fundamental understanding of the functional and technical design requirements for simulation in manufacturing and service industries. Research in this area is based on a systems modeling paradigm and provides coding and development capability in the context of a broader systems framework. Significant exposure to design and analysis aspects is a core element of the track. The Simulation Modeling and Analysis research and coursework prepare individuals with an undergraduate degree in Engineering, Science, Mathematics, or a closely related discipline for careers in simulation, focusing particularly on using simulation as an analysis and design tool for the manufacturing and service industries.

**Systems Engineering**

Intelligence is being infused into everyday systems, processes and infrastructure that enable physical goods to be developed, manufactured, bought and sold. These same systems also facilitate the movement and delivery of global products and services that support worldwide markets such as finance, energy resources, and healthcare systems.

With these technological advancements, comes a new level of complexity as organizations struggle to integrate systems, processes and data feeds. As a result, the demand for systems engineering and related skills is expected to grow significantly.

Systems engineers design and implement computer systems, software, and networks, including defining complex system requirements, and determining system specifications, processes and working parameters.

The Systems Engineering studies and research in the Industrial Engineering MS program are intended for individuals of all engineering disciplines. Research and coursework focus on a systems view of engineering problems related to the management of complex industrial, military, government, and social systems.

This degree has 2 tracks: Accelerated BS to MS Track and Healthcare Systems Engineering Track. Please scroll to the bottom of this page for further details on these Tracks.

**This program can be taken entirely through the Center for Online and Virtual Education (COVE), which provides video-
streamed versions of classes over the Internet. More information about this program can be found at http://www.cecs.ucf.edu/COVE/ or (407) 823-3814.

The Industrial Engineering MS program offers both thesis and nonthesis options with each requiring 30 credit hours of courses. The program is flexible to enable students to model their plan of study to suit their needs and future work or career goals. All students must develop a plan of study with the graduate program director that meets with departmental approval. At least one-half of the courses (including thesis hours) required in the master's program of study must be at the 6000 level or higher. A cumulative grade-point average of B (3.0) must be maintained in the entire program of study.

Students on assistantships must take 9 credit hours per semester (Fall, Spring) to satisfy the university's requirement for full-time status. Most students working full time take 6 credit hours per semester. At that rate, the program can be completed in 6 semesters or less. However, students with more time available and with an early start on a thesis, if applicable, can finish the program in 3 semesters.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree**

**Program Prerequisites**

The Industrial Engineering MS program requires an undergraduate degree in engineering, mathematics, computer science, statistics, physics, quantitative management or similar field.

Outstanding students with degrees in other disciplines such as business, economics or computer/information sciences may also be considered on a case-by-case basis, provided they have significant work experience and/or very high academic standing.

Regardless of the undergraduate degree, all applicants must have completed the following prerequisites:

- Mathematics through Calculus II (MAC 2312 or equivalent)
- An undergraduate course in engineering probability and statistics.
- In addition, they are expected to be familiar with at least one programming language (such as C, FORTRAN, Java, Visual BASIC, C++, etc.) and common computer skills and tools such as word processors and spreadsheets.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Résumé or Curriculum Vita
- Goal statement
  - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a Master's degree in Industrial Engineering. Future educational and career goals after the completion of the applicant's master study should be discussed.
  - If the applicant is interested in completing a Master thesis, then the applicant must clearly describe the particular area of research interest. The applicant should identify at least one UCF faculty member who shares a similar research focus and is believed to be best suited to serve as a potential thesis advisor.
  - The goal statement should between 500 and 1,000 words.
- Two letters of recommendation
  - The letters of recommendation should be from faculty members, university administrators, and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of the applicant. The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program. Letters for Master's thesis students must discuss the applicant's ability to perform graduate-level research.
  - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applications are accepted for the fall and spring terms only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

**Graduate Application Deadlines**

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<th>*Fall Priority</th>
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<th>Spring</th>
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<td>International Applicants</td>
<td>Jan 15</td>
<td>Jan 15</td>
<td>Jul 1</td>
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</tbody>
</table>
Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - ESI5219 - Engineering Statistics (3)
  - EIN5140 - Project Engineering (3)
  - EIN6357 - Advanced Engineering Economic Analysis (3)
  - ESI6551 - Systems Engineering (3)

IEMS Electives
12 Total Credits

- All students, both thesis and nonthesis, must take 12 credit hours of electives after consultation with their adviser. The program requirements are flexible enough to allow the students to tailor the coursework according to their desired educational and career goals. With the approval of their adviser and/or the graduate program director, students may select from the following groups of courses to satisfy the needs of their research goals or career objectives. To assist the students in achieving these goals and objectives, courses are grouped below to suggest focus areas, only as a guide to assist in advising and course selection. They are not intended to restrict elective choices among specialization areas as the intent of the program is to help graduate students maintain an integrated approach to their studies. The listing of these courses does not guarantee that they will be offered by the department in a particular year or semester. In addition to the courses listed below, students may be allowed to take courses from the following disciplines at UCF, with the approval of the graduate program director, as an elective in their graduate program of study: Other Engineering programs Computer Science Mathematics Statistics Business Administration or Management

Focus Areas
12 Total Credits

- Complete 1 of the following
  - Human Systems Engineering/Ergonomics
  - Earn at least 12 credits from the following:
    - EIN5248 - Ergonomics (3)
    - EIN5251 - Usability Engineering (3)
    - EIN6258 - Human Computer Interaction (3)
    - EIN6271 - Human Reliability (3)

  - Quality and Production Systems
  - Earn at least 12 credits from the following:
    - ESI6225 - Quality Design and Control (3)
    - ESI6224 - Quality Management (3)
    - EIN6336 - Production and Inventory Control (3)
    - EIN5356 - Cost Engineering (3)
    - EIS5227 - Total Quality Improvement (3)
    - EIS6247 - Experimental Design and Taguchi Methods (3)

  - Management Systems
  - Earn at least 12 credits from the following:
    - EIN6182 - Engineering Management (3)
EIN5117 - Management Information Systems I (3)
EIN6370 - Innovation in Engineering Design (3)
EIN6339 - Operations Engineering (3)
EIN5108 - The Environment of Technical Organizations (3)

Simulation, Optimization and Modeling
- Earn at least 12 credits from the following:
  - ESI6336 - Queueing Systems (3)
  - ESI5306 - Operations Research (3)
  - ESI6418 - Linear Programming and Extensions (3)
  - ESI6532 - Object-Oriented Simulation (3)
  - ESI5531 - Discrete Systems Simulation (3)
  - EIN5255C - Interactive Simulation (3)
  - EIN5288 - Simulation Based Life Cycle Engineering (3)
  - EIN6936 - Seminar in Advanced Industrial Engineering (3)
  - ESI6217 - Statistical Aspects of Digital Simulation (3)

Systems Engineering
- Earn at least 12 credits from the following:
  - ESI6358 - Decision Analysis (3)
  - ESI5359 - Risk Assessment and Management (3)
  - EIN6215 - System Safety Engineering and Management (3)
  - EIN5346 - Engineering Logistics (3)
  - ESI6891 - IEMS Research Methods (3)
  - ESI5236 - Reliability Engineering (3)

Thesis/Nonthesis Option
6 Total Credits
- Complete 1 of the following
  - Thesis
    - Earn at least 6 credits from the following types of courses:
      EIN 6971 Thesis The thesis option requires 6 credit hours of thesis. Thesis students must complete an independent research study and write and successfully defend a thesis according to program guidelines. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website (http://www.cecs.ucf.edu/graddefense/) and on the College of Graduate Studies Events Calendar at least two weeks before the defense date.
  - Nonthesis Option
    - Complete all of the following
      - Complete the following:
        - EIN6950 - Industrial and Systems Engineering Capstone (3)
      - Earn at least 3 credits from the following types of courses:
        Additional Elective Course. The nonthesis option requires a capstone course and an additional unrestricted elective course that supports the student's area of research and study interests. The capstone course should be completed toward the end of the student's graduate plan of study. As part of the requirements of this courses, students will complete an independent capstone project on a topic relevant to the industrial and systems engineering field and approved by the instructor. Students are expected to use and leverage knowledge obtained in the program to complete the project. This course serves as the culminating experience for students and shows their engagement in independent learning.

Grand Total Credits: 30

Program Details

Equipment Fee
Full-time students in the Industrial Engineering MSIE program pay a $58 equipment fee each semester that they are enrolled. Part-time students pay $29 each semester that they are enrolled.

Independent Learning
The Independent Learning requirement is met by successful completion of a thesis or the capstone course.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Industrial Engineering MS - Industrial Engineering MS, Healthcare Systems Engineering Track

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Track Website
https://www.ucf.edu/online/healthcare-systems-engineering/

Track Contact Information

Vernet Lasrado PhD
Vernet.Lasrado@ucf.edu
Telephone: 404-769-5264
Engineering II, 419

Mansoor Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Is this track available 100% online?

Yes

UCF Online

Please note: Industrial Engineering (MS) - Healthcare Systems Engineering may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Industrial-Engineering-MS.pdf.
**Track Description**

The Healthcare Systems Engineering track is a fully online degree program designed to be completed within two years. This 30-credit-hour program trains students to implement, manage and introduce systematic changes to improve patient care and enhance utilization of organizational resources. This unique program is offered in response to the growing needs of the healthcare industry.

Students will receive a Master of Science, offered by the Department of Industrial Engineering and Management Sciences at the College of Engineering and Computer Science, in the Healthcare Systems Engineering Track.

The future of healthcare will need leaders who are passionate about implementing, managing and refining healthcare systems to improve patient care and reduce overall cost. This degree can help students realize their leadership potential, fuel their passion for healthcare innovation, and provide the necessary tools needed to make this systemic change a reality. Through the ideology and principles of systems engineering taught in this degree, individuals learn the specialized skills needed to foster operational change within healthcare organizations.

By graduation, students will be able to help healthcare organizations to:

- Conduct analyses of large-scale social and ecological systems across the healthcare sector
- Assess and mitigate risks throughout organizational processes and relationships
- Analyze risks to individual and public health impacted by issues in the healthcare system
- Bring evidence-based thinking and analysis to process and system change
- Develop and manage a quality management system across an organizational setting
- Plan and conduct change initiatives that directly impact quality and costs
- Design and build detailed computer simulations of healthcare organizations and health technology assessments
- Adapt information systems to improve management planning and control

A sampling of career opportunities include:

Healthcare Management Engineer, Operational Excellence Project Manager, Systems Redesign Consultant, Lean Specialist, Process Improvement Consultant, Continuous Improvement Specialist and Healthcare Analyst.

The Healthcare Systems Engineering (HCSE) track requires 30 credit hours of courses beyond the bachelor's degree. This program offers only the nonthesis option.

For information about the program, please contact the HSE Director Dr. Vernet Lasrado (vernet.lasrado@ucf.edu).

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

An undergraduate course in probability and statistics

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Résumé or Curriculum Vita
  - Goal statement
    - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a Master's degree in Industrial Engineering. Future educational and career goals after the completion of the applicant's master study should be discussed. The goal statement should between 500 and 1,000 words.
  - Two letters of recommendation
    - The letters of recommendation should be from faculty members, university administrators, and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of the applicant. The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program. Letters for Master's thesis students must discuss the applicant's ability to perform graduate-level research.

- International Students
  - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
  - Given the fully online nature of this degree program, International students will not receive an F1 visa, hence you will **not take** this degree program in the US. International students are free to take this degree program from their home or any country besides the US.
  - Applications are accepted for the fall and spring terms only.
  - Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.
### Graduate Application Deadlines

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</table>

#### Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

### Graduate School Contact

**Jaylin Hudgen**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

### Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

### Institution Codes

- GRE: 5233  
- GMAT: RZT-HT-58  
- TOEFL: 5233  
- ETS PPI: 5233

### Degree Requirements

Required Courses  
30 Total Credits

- Complete the following:
  - HSC6636 - Issues and Trends in the Health Professions (3)  
  - ESI5219 - Engineering Statistics (3)  
  - ESI6551 - Systems Engineering (3)  
  - EIN6357 - Advanced Engineering Economic Analysis (3)  
  - ESI5531 - Discrete Systems Simulation (3)  
  - ESI5359 - Risk Assessment and Management (3)  
  - EIN5117 - Management Information Systems I (3)  
  - ESI6224 - Quality Management (3)  
  - ESI6609 - Industrial Engineering Analytics for Healthcare (3)  
  - EIN5140 - Project Engineering (3)

Grand Total Credits: 30

### Track Details

#### Cost Per Credit Hour

This Master of Science, both for in-state and out-of-state, costs $1,239.16 per credit hour totaling $37,174.80* for the program which includes tuition and fees.

*Fee subject to change.

### Independent Learning

The Independent Learning requirement is met by successful completion of the research studies required in individual courses and EIN 5140 - Project Engineering (Capstone). These research studies require that students integrate material from all the courses in their program.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

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https://funding.graduate.ucf.edu

Industrial Engineering MSIE

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Program Website
http://www.iems.ucf.edu/

Program Handbook
Industrial Engineering MSIE

Program Contact Information
Mansooreh Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Is this program available 100% online?
Yes

UCF Online

Please note: Industrial Engineering (MSIE) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure
This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Industrial-Engineering-MSIE.pdf.
Program Description

The Department of Industrial Engineering and Management Systems offers a Master of Science in Industrial Engineering (MSIE) degree focusing on the design and improvement of systems, products, and processes. This degree is available to those applicants with a bachelor of science degree in Industrial Engineering (BSIE) or other Engineering degree ONLY.

A total systems approach is used to optimize the various aspects of operations in both manufacturing and service industries. Industrial engineers use many analytical approaches to improve productivity, safety, and quality of working life while reducing operating costs. The MSIE curriculum builds on an undergraduate engineering degree to develop a stronger systems focus and analytical capability.

The industrial engineering graduate programs are structured to support the emergence of Central Florida as a national center of high technology as well as supporting the diverse service industries in the region and throughout the nation.

Many of the graduate courses offered by the department or required in the MSIE program are offered through the Florida Engineering Educational Delivery System (FEEDS), which provides video-streamed versions of classes over the Internet.

This program can be taken entirely through the Center for Online and Virtual Education (COVE), which provides video-streamed versions of classes over the Internet. More information about this program can be found at http://www.cecs.ucf.edu/COVE/ or (407) 823-3814.

The Industrial Engineering MSIE degree requires an undergraduate degree in Industrial Engineering or any other Engineering degree. Students with undergraduate degrees outside of industrial engineering may be required to take additional prerequisites. The program offers both thesis and nonthesis options with each requiring 30 credit hours of courses. At least half of the regular coursework must be at the 6000 level. A cumulative grade-point average of B must be maintained in the entire program of study.

Thesis Option: The thesis option requires 12 credit hours of required courses, 12 credit hours of electives and 6 thesis credit hours. Students must also write and successfully defend a thesis.

Nonthesis Option: The nonthesis option requires 12 credit hours of required courses and 18 credit hours of electives. Research studies are required in one or more courses. The research study and report will focus on reviewing and analyzing contemporary research in the profession in order to help students acquire knowledge and skills pertaining to research-based best practices. In addition, students may engage in directed independent studies, directed research or a research report during their studies. A program of study must be developed with the graduate program director and meet with departmental approval. At least one-half of the credit hours (including thesis hours) required in a master's program of study must be at the 6000 level or higher. Students on assistantships must take 9 credit hours per semester to satisfy the university’s requirement for full-time status. Most students working full time take 6 credit hours per semester. At that rate, the program can be completed in 6 semesters or less. However, students with more time available and with an early start on a thesis, if applicable, can finish the program in 3 semesters.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Students with undergraduate degrees in industrial engineering or other engineering degrees are encouraged to apply for admission. Graduates from non-engineering curricula may apply to obtain the MS degree.

All applicants are expected to have completed the following prerequisites during their undergraduate engineering education:

- Mathematics through Calculus II (MAC 2312 or equivalent)
- Undergraduate probability and statistics for engineers (STA 3032 or equivalent)
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Résumé or Curriculum Vita
- Goal statement
  - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a Master's degree in Industrial Engineering. Future educational and career goals after the completion of the applicant's master study should be discussed.
  - If the applicant is interested in completing a Master thesis, then the applicant must clearly describe the particular area of research interest. The applicant should identify at least one UCF faculty member who shares a similar research focus and is believed to be best suited to serve as a potential thesis advisor.
  - The goal statement should between 500 and 1,000 words.
- Two letters of recommendation
  - The letters of recommendation should be from faculty members, university administrators, and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of the applicant. The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program. Letters for Master's thesis students must discuss the applicant's ability to perform graduate-level research.
  - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applications are accepted for the fall and spring terms only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

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Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Required Courses  
12 Total Credits

- Complete all of the following
Complete the following:
- ESI6551 - Systems Engineering (3)
- ESI6224 - Quality Management (3)
- ESI6247 - Experimental Design and Taguchi Methods (3)

Complete at least 1 of the following:
- ESI5306 - Operations Research (3)
- ESI6418 - Linear Programming and Extensions (3)

Elective Courses
12 Total Credits

- All students, both thesis and nonthesis, must take 12 credit hours of electives after consultation with their adviser. The program requirements are flexible enough to allow the students to tailor the coursework according to their desired educational and career goals. With the approval of their adviser and/or the graduate program director, students may select from the following groups of courses to satisfy the needs of their research goals or career objectives. To assist the students in achieving these goals and objectives, courses are grouped below to suggest focus areas, only as a guide to assist in advising and course selection. They are not intended to restrict elective choices among specialization areas as the intent of the program is to help graduate students maintain an integrated approach to their studies. The listing of these courses does not guarantee that they will be offered by the department in a particular year or semester. In addition to the courses listed below, students may be allowed to take courses from the following disciplines at UCF, with the approval of the graduate program director, as an elective in their graduate program of study: Other Engineering programs Computer Science Mathematics Statistics Business Administration or Management

Focus Areas
12 Total Credits

- Complete 1 of the following
  - Human System Engineering/Ergonomics
    - Earn at least 12 credits from the following:
      - EINS248 - Ergonomics (3)
      - EINS251 - Usability Engineering (3)
      - EIN6258 - Human Computer Interaction (3)
      - EIN6271 - Human Reliability (3)
  - Quality and Production Systems
    - Earn at least 12 credits from the following:
      - ESI6225 - Quality Design and Control (3)
      - EIN6336 - Production and Inventory Control (3)
      - EINS5356 - Cost Engineering (3)
      - ESI5227 - Total Quality Improvement (3)
  - Management Systems
    - Earn at least 12 credits from the following:
      - EIN6182 - Engineering Management (3)
      - EINS5117 - Management Information Systems I (3)
      - EIN6370 - Innovation in Engineering Design (3)
      - EIN6339 - Operations Engineering (3)
      - EINS5108 - The Environment of Technical Organizations (3)
  - Simulation, Optimization and Modeling
    - Earn at least 12 credits from the following:
      - ESI6336 - Queuing Systems (3)
      - ESI6532 - Object-Oriented Simulation (3)
      - ESI5531 - Discrete Systems Simulation (3)
      - EINS5255C - Interactive Simulation (3)
      - EIN6528 - Simulation Based Life Cycle Engineering (3)
      - EIN6936 - Seminar in Advanced Industrial Engineering (3)
      - ESI6217 - Statistical Aspects of Digital Simulation (3)
  - Systems Engineering
    - Earn at least 12 credits from the following:
      - ESI6358 - Decision Analysis (3)
      - ESI5359 - Risk Assessment and Management (3)
      - EIN6215 - System Safety Engineering and Management (3)
      - ESI5236 - Reliability Engineering (3)
      - EINS346 - Engineering Logistics (3)
      - ESI6891 - IEMS Research Methods (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
EIN 6971 Thesis The thesis option requires an additional 6 credit hours of thesis. Thesis students must complete an independent research project and write and successfully defend a thesis describing the project. Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website (http://www.cecs.ucf.edu/graddefense/) and on the College of Graduate Studies Events Calendar at least two weeks before the defense date.

Nonthesis Option

- Complete all of the following
  - EIN6950 - Industrial and Systems Engineering Capstone (3)
  - Earn at least 3 credits from the following types of courses:
    - Additional Elective Course. The nonthesis option requires a capstone course and an additional unrestricted elective course that supports the student's area of research and study interests. The capstone course should be completed toward the end of the student's graduate plan of study. As part of the requirements of this course, students will complete an independent capstone project on a topic relevant to the industrial and systems engineering field and approved by the instructor. Students are expected to use and leverage knowledge obtained in the program to complete the project. This course serves as the culminating experience for students and shows their engagement in independent learning.

Grand Total Credits: 30

Program Details

Equipment Fee

Full-time students in the Industrial Engineering MSIE program pay a $58 equipment fee each semester that they are enrolled. Part-time students pay $29 each semester that they are enrolled.

Independent Learning

A research project serves as the independent learning experience for thesis students. Nonthesis students are required to complete the department's capstone course toward the end of their program.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Industrial Engineering MSIE - Industrial Engineering MS, Accelerated BS to MSIE Track

College

College of Engineering and Computer Science

Department

Department of Industrial Engineering and Management Systems

Track Website

http://www.iems.ucf.edu/
**Track Handbook**

Industrial Engineering MSIE

**Track Contact Information**

Mansoor Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

**Is this track available 100% online?**

No

**Licensure Disclosure**

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Industrial-Engineering-MSIE.pdf.

**Track Description**

The accelerated undergraduate/graduate program in Industrial Engineering allows highly qualified undergraduate majors in Industrial Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate program. Participation will enable completion of the Bachelor of Science and Master of Science degrees in Industrial Engineering in five instead of six years for students enrolled in full-time course work.

Industrial Engineering focuses on the design and improvement of systems, products, and processes. A total systems approach is used to optimize the various aspects of operations in both manufacturing and service industries. Industrial engineers use many analytical approaches to improve productivity, safety, and quality of working life while reducing operating costs.

The Industrial Engineering graduate programs are structured to support the emergence of Central Florida as a national center of high technology as well as supporting the diverse service industries in the region and throughout the nation.

Additional information can be found at www.iems.ucf.edu.

**Track Prerequisites**

A bachelor's degree in Industrial Engineering from UCF.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated BS to MSIE program in Industrial Engineering allows highly qualified University of Central Florida undergraduate majors in Industrial Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but were not previously part of this accelerated program, then they should apply to MSIE.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Industrial Engineering or other engineering ONLY.
- The GRE is not required for admission to this program.
- Two letters of recommendation from two individual who are familiar with the applicant's capabilities to enter and succeed into his/her graduate studies and to perform graduate research.
- Curriculum Vitae/resume.
- Statement of educational, research, and professional career objectives. The statement should explain the applicant's future career and educational goals, reasons behind seeking the degree, and why he/she believes that this degree best suits their interests.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.
Graduate Application Deadlines

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*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ESI6551 - Systems Engineering (3)
    - ESI6224 - Quality Management (3)
    - ESI6247 - Experimental Design and Taguchi Methods (3)
  - Complete at least 1 of the following:
    - ESI5306 - Operations Research (3)
    - ESI6418 - Linear Programming and Extensions (3)

Elective Courses
12 Total Credits

- All students, both thesis and nonthesis, must take 12 credit hours of electives after consultation with their adviser. The program requirements are flexible enough to allow the students to tailor the coursework according to their desired educational and career goals. With the approval of their adviser and/or the graduate program director, students may select from the following groups of courses to satisfy the needs of their research goals or career objectives. To assist the students in achieving these goals and objectives, courses are grouped below to suggest focus areas, only as a guide to assist in advising and course selection. They are not intended to restrict elective choices among specialization areas as the intent of the program is to help graduate students maintain an integrated approach to their studies. The listing of these courses does not guarantee that they will be offered by the department in a particular year or semester. In addition to the courses listed below, students may be allowed to take courses from the following disciplines at UCF, with the approval of the graduate program director, as an elective in their graduate program of study: Other Engineering programs Computer Science Mathematics Statistics Business Administration or Management

Focus Areas
12 Total Credits

- Complete 1 of the following
  - Human System Engineering/Ergonomics
  - Earn at least 12 credits from the following:
    - EINS248 - Ergonomics (3)
    - EIN5251 - Usability Engineering (3)
    - EIN6258 - Human Computer Interaction (3)
Quality and Production Systems
- Earn at least 12 credits from the following:
  - EIN6225 - Quality Design and Control (3)
  - EIN6336 - Production and Inventory Control (3)
  - EIN5356 - Cost Engineering (3)
  - ESI5227 - Total Quality Improvement (3)

Management Systems
- Earn at least 12 credits from the following:
  - EIN6182 - Engineering Management (3)
  - EIN5117 - Management Information Systems I (3)
  - EIN6370 - Innovation in Engineering Design (3)
  - EIN6339 - Operations Engineering (3)
  - EIN5108 - The Environment of Technical Organizations (3)

Simulation, Optimization and Modeling
- Earn at least 12 credits from the following:
  - ESI6336 - Queueing Systems (3)
  - ESI6532 - Object-Oriented Simulation (3)
  - ESI5531 - Discrete Systems Simulation (3)
  - EIN5255C - Interactive Simulation (3)
  - EIN6528 - Simulation Based Life Cycle Engineering (3)
  - EIN6936 - Seminar in Advanced Industrial Engineering (3)
  - ESI6217 - Statistical Aspects of Digital Simulation (3)

Systems Engineering
- Earn at least 12 credits from the following:
  - ESI6358 - Decision Analysis (3)
  - ESI5359 - Risk Assessment and Management (3)
  - EIN6215 - System Safety Engineering and Management (3)
  - ESI5236 - Reliability Engineering (3)
  - ESI5236 - Reliability Engineering (3)
  - ESI6891 - IEMS Research Methods (3)

Thesis/Nonthesis Option
6 Total Credits
- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - EIN 6971 Thesis The thesis option requires an additional 6 credit hours of thesis. Thesis students must complete an independent research project and write and successfully defend a thesis describing the project. Students may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic. The College of Engineering and Computer Science requires that all thesis defense announcements are approved by the student's adviser and posted on the college's website (http://www.cecs.ucf.edu/graddefense/) and on the College of Graduate Studies Events Calendar at least two weeks before the defense date.
      - Nonthesis Option
    - Complete all of the following
      - Complete the following:
        - EIN6950 - Industrial and Systems Engineering Capstone (3)
      - Earn at least 3 credits from the following types of courses:
        - Additional Elective Course. The nonthesis option requires a capstone course and an additional unrestricted elective course that supports the student's area of research and study interests. The capstone course should be completed toward the end of the student's graduate plan of study. As part of the requirements of this courses, students will complete an independent capstone project on a topic relevant to the industrial and systems engineering field and approved by the instructor. Students are expected to use and leverage knowledge obtained in the program to complete the project. This course serves as the culminating experience for students and shows their engagement in independent learning.

Grand Total Credits: 30

Track Details

Equipment Fee
Full-time students in the Industrial Engineering MSIE program pay a $58 equipment fee each semester that they are enrolled. Part-time students pay $29 each semester that they are enrolled.

Independent Learning
A research project serves as the independent learning experience for thesis students. Nonthesis students are required to complete the department's capstone course toward the end of their program.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Industrial Engineering PhD

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Program Website
http://www.iems.ucf.edu/

Program Handbook
Industrial Engineering PhD

Program Contact Information

Mansooreh Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Is this program available 100% online?
No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Industrial-Engineering-PhD.pdf.

Program Description

The Industrial Engineering PhD program prepares students for extensive research and careers in academia, industry and government while providing a broad knowledge of industrial engineering.

The Doctor of Philosophy in Industrial Engineering is intended for a student with a bachelor's or master's degree in Industrial Engineering or a closely related discipline.

The PhD program is designed to produce highly skilled researchers with both broad knowledge of industrial engineering and in-depth knowledge of specialty fields for careers in academia, industry, and government. The program allows a candidate to thoroughly study some aspect of industrial engineering through faculty expertise in research areas such as management systems, systems simulation and modeling, operations research, quality systems engineering, interactive simulation and training systems, systems engineering, and human systems engineering, human-computer interaction, and ergonomics.

The Industrial Engineering program is structured to support the emergence of Central Florida as a national center of high technology
as well as supporting the diverse service industries in the region and throughout the nation.

In the Industrial Engineering PhD program, students may be able to individually craft their programs of study and select their courses to focus in one or more of the following research areas for their dissertations:

**Human Systems Engineering/Ergonomics:**

As technology has become more sophisticated, the need to design for the human user has become more difficult, yet even more important. Human engineering and ergonomics assist in ensuring that as technology advances, the abilities, limitations, and needs of humans are considered in the system design. This not only supports the needs of the user, it also optimizes the efficiency and usability of the system designed. Traditionally, ergonomics has been associated with biomechanical issues and work measurement and performance issues in physical system design, as well as occupational and industrial safety. The broader focus of human engineering encompasses those issues as well as incorporating the reaction and effectiveness of human interaction with systems, both physical systems and virtual systems such as computer-based models.

Research in the Human Systems Engineering and Ergonomics area provides students with the necessary knowledge in human engineering and ergonomics to effectively design tasks, industrial systems, and work environments that maximize human performance, safety, and overall productivity.

**Interactive Simulation and Training Systems:**

The Interactive Simulation and Training Systems research within the Industrial Engineering MS program focuses on providing a fundamental understanding of significant topics relative to simulation systems and the requirements, design, development, and use of such systems for knowledge transfer in the technical environment. Courses in this area address the evolving and multiple discipline application of interactive simulation by providing a wealth of electives to support development of individual student interests and talents. In conjunction with UCF’s Institute for Simulation and Training, industrial organizations involved in simulation in the Central Florida region, military organizations, and other governmental organizations, ISTS research in the MS program provides exposure to both military and commercial interactive simulation and training systems.

The emphasis is on the application and development of interactive simulation and training systems to meet various requirements including, but not limited to: simulators, skill trainers, organizational learning systems, computer and web-based interactive simulation systems and other novel interactive simulation efforts. Courses in the interactive simulation and training systems area prepare individuals with an undergraduate degree in engineering, science, education, psychology, mathematics or other related disciplines for careers in simulation, focusing particularly on the interactive simulation and training systems industries.

**Management Systems/Engineering management:**

The Management Systems/Engineering Management research focuses on providing the knowledge for improving organizational systems. Engineering Management focuses on effective decision-making and successful project delivery in engineering and technological organizations. With technological advancements comes a new level of organizational complexity. As a result new knowledge is needed to help the technical organization understand how to improve. The Management Systems/Engineering Management studies and research in the Industrial Engineering program are intended for individuals of all engineering disciplines. Research and coursework focus on a systems view of engineering problems related to the management of complex industrial, military, government, and social systems.

**Operations Research:**

The Operations Research courses in the Industrial Engineering MS program uses mathematics and computer-based systems to model operational processes and decisions in order to develop and evaluate alternatives that will lead to gains in efficiency and effectiveness. Drawing on probability, statistics, simulation, optimization, and stochastic processes, Operations Research provides many of the analytic tools used by industrial engineers as well as by other analysts to improve processes, decision-making, and management by individuals and organizations. Research in this area is ideal for students who have an undergraduate degree in engineering, mathematics, or science. The knowledge in these courses build on an undergraduate Engineering, Mathematics, or Science degree to develop a strong modeling and analytical capability to improve processes and decision-making.

**Quality Systems Engineering:**

The Quality Systems Engineering research in the Industrial Engineering MS program focuses on providing the knowledge for improving product and process quality in manufacturing and service industries. Quality Systems Engineering provides both the quantitative tools for measuring quality and the managerial focus and organizational insight required to implement effective continuous improvement programs and incorporate the voice of the customer. The Quality Systems Engineering courses builds on an undergraduate degree in industrial engineering or a closely related discipline to provide the necessary knowledge to plan, control, and improve the product assurance function in government, military, service, or manufacturing organizations.

**Simulation Modeling and Analysis:**

The Simulation Modeling and Analysis research and studies in the Industrial Engineering MS program focus on providing a fundamental understanding of the functional and technical design requirements for simulation in manufacturing and service industries. Research in this area is based on a systems modeling paradigm and provides coding and development capability in the context of a broader systems framework. Significant exposure to design and analysis aspects is a core element of the track. The Simulation Modeling and Analysis research and coursework prepare individuals with an undergraduate degree in Engineering, Science, Mathematics, or a closely related discipline for careers in simulation, focusing particularly on using simulation as an analysis and design tool for the manufacturing and service industries.

**Systems Engineering:**

Intelligence is being infused into everyday systems, processes and infrastructure that enable physical goods to be developed,
manufactured, bought and sold. These same systems also facilitate the movement and delivery of global products and services that support worldwide markets such as finance, energy resources, and healthcare systems.

With these technological advancements, comes a new level of complexity as organizations struggle to integrate systems, processes and data feeds. As a result, the demand for systems engineering and related skills is expected to grow significantly.

Systems engineers design and implement computer systems, software, and networks, including defining complex system requirements, and determining system specifications, processes and working parameters.

The Systems Engineering studies and research in the Industrial Engineering MS program are intended for individuals of all engineering disciplines. Research and coursework focus on a systems view of engineering problems related to the management of complex industrial, military, government, and social systems.

The Industrial Engineering PhD program requires a minimum of 72 credit hours beyond the bachelor's degree. If a student holds a master's degree, the student must complete at least 27 credit hours of required coursework, in addition to 15 credit hours of dissertation.

Of the total coursework taken, 27 hours must be formal course work exclusive of independent study and 15 credit hours must consist of dissertation research (EIN 7980). All remaining hours are determined with a faculty adviser and approved by the department. Details about this program are located in the Industrial Engineering PhD Handbook.

**Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor’s Degree**

**Program Prerequisites**

Bachelor's or Master's degree in Industrial Engineering or a closely related discipline.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Bachelor's or Master's degree in Industrial Engineering or a closely related discipline
- An official, competitive score on the GRE taken within the last five years
- Résumé or Curriculum Vita
- Goal Statement
  - The Goal Statement should discuss all relevant professional background and any previous research experience. The statement should explain the motivation behind the pursuit of a doctoral degree in Industrial Engineering at UCF. Future career goals after the completion of the applicant's doctoral study should be discussed.
  - Most importantly, the applicant must clearly describe the particular area(s) of research interest. The applicant should identify at least one UCF faculty member who shares a similar research focus and is believed to be best suited to serve as a potential dissertation advisor.
  - The goal statement should between 500 and 1,000 words.
- Three letters of recommendation
  - The letters of recommendation should be from faculty members, university administrators and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of applicant. The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program. Letters for PhD applicants must discuss the applicant's ability to perform graduate-level research. At least two of the letters should be furnished by college or university professors who are acquainted with the applicant.

Applications are accepted for the fall and spring terms only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Fellowships and assistantships may be awarded based on the student’s GPA, GRE scores, letters of recommendation, curriculum vitae/resume, and goals statement.

Students must complete any needed articulation course work and pass a PhD Qualifying Examination in order to be admitted as a regular doctoral student. This exam is normally taken within the first year after all articulation work is completed.

**Graduate Application Deadlines**

<table>
<thead>
<tr>
<th>Industrial Engineering PhD</th>
<th>Fall Priority</th>
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2021-2022 Graduate Catalog
**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*

**Graduate School Contact**

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230

**Mailing Address**

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

**Degree Requirements**

**Required Courses**

- Complete the following:
  - ESI6891 - IEMS Research Methods (3)
  - ESI6247 - Experimental Design and Taguchi Methods (3)

**Elective Courses**

- Complete all of the following:
  - At least seventeen unrestricted electives - A maximum of 30 semester credit hours from an earned master's degree may be applied toward these requirements. Waived credits are evaluated on a course-by-course basis. - A maximum of 12 hours of Independent Study and/or Doctoral research is allowed in the Ph.D. program of study. Students, with the approval of their advisers and/or the graduate program director, may select from the following groups of courses to satisfy the needs of their research goals or career objectives. To assist students in achieving their goals and objectives, courses are grouped below to suggest focus areas, only as guides for advising and course selection. The listing of these courses does not guarantee that they will be offered by the department in a particular year or semester. In addition to the courses listed below, students may be allowed to take courses from the following disciplines, with the approval of the graduate program director, as an elective in their graduate plan of study. Other Engineering Programs, Computer Science, Mathematics and Statistics, Business Administration/Management
  - Earn at least 51 credits from the following:
    - EINS248 - Ergonomics (3)
    - EINS251 - Usability Engineering (3)
    - EIN6258 - Human Computer Interaction (3)
    - EIN6271 - Human Reliability (3)
    - ESIS225 - Quality Design and Control (3)
    - ESI6224 - Quality Management (3)
    - EIN6336 - Production and Inventory Control (3)
    - EIN6336 - Production and Inventory Control (3)
    - ESI5227 - Total Quality Improvement (3)
    - EIN6182 - Engineering Management (3)
    - EINS5117 - Management Information Systems I (3)
    - EIN6370 - Innovation in Engineering Design (3)
    - EIN6399 - Operations Engineering (3)
    - EIN5108 - The Environment of Technical Organizations (3)
    - ESIS6336 - Queueing Systems (3)
    - ESI5306 - Operations Research (3)
    - ESI6418 - Linear Programming and Extensions (3)
    - ESI6532 - Object-Oriented Simulation (3)
    - ESI5531 - Discrete Systems Simulation (3)
    - EINS255C - Interactive Simulation (3)
    - EIN6528 - Simulation Based Life Cycle Engineering (3)
    - EIN6936 - Seminar in Advanced Industrial Engineering (3)
    - ESI6217 - Statistical Aspects of Digital Simulation (3)
    - ESI6358 - Decision Analysis (3)
Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  EIN 7980 Dissertation

Examinations
0 Total Credits

- At Qualifying Examination (QE) time students should know their intended direction of research but they do not necessarily know their specific topic/problem. The QE's objective is to determine whether the student's knowledge allows for a thorough understanding of methods and techniques discussed in the literature in his/her area(s) of interest. The IEMS PhD Qualifying Examination is a take-home exam designed to test the student's knowledge of fundamentals within the discipline and to assess the student's ability to conduct independent research and to think analytically, creatively, and independently. Exam questions address the student's global research awareness as well as his/her analytical thinking, research potential, and communication skills. The student must be able to understand the field's literature, as well as to summarize and discuss research findings. It is strongly recommended that students take ESI 6891 IEMS Research Methods prior to taking the Qualifying Examination. While thinking about taking the Qualifying Examination, students are strongly encouraged to evaluate their options for research and make informed decisions about their area of research interests. It is recommended that students seek advice from faculty members whose research interests match their own research areas in order for the students to properly select their electives and develop the appropriate plan of study. In addition to the Qualifying Examination, the student must pass a Candidacy Examination and a Dissertation Defense Examination. Details about these examinations and other requirements are located in the Industrial Engineering PhD Handbook. The Candidacy Examination may be taken any time after successful completion of the Qualifying Examination, but not in the same semester. The objective of the Candidacy Examination is to determine if the student has the breadth and depth of knowledge required to conduct independent research in the proposed area. The Candidacy Examination includes an oral presentation of a detailed dissertation proposal, which becomes the oral candidacy document, and the written component of the Candidacy Examination is satisfied by the proposal document, which becomes the required candidacy document. The Dissertation Defense Examination is an oral examination taken in defense of the written dissertation. The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the student's adviser and posted on the college's website and on the Events Calendar of the College of Graduate Studies website at least two weeks before the defense date.

Dissertation Committee Requirement
0 Total Credits

- The doctoral committee must consist of a minimum of four members: at least three must be graduate faculty members from within the student's department, and one must be at large, from graduate faculty scholars outside the Industrial Engineering faculty. The committee chair must be a member of the graduate faculty who is approved to direct dissertations. Faculty members with joint appointments in IEMS may serve as department-faculty committee members. Adjunct faculty and off-campus experts who are graduate faculty scholars may serve as the outside-the-department person on the committee, as well as serve as co-chairs of the committee with the approval of the department Chair. The College of Graduate Studies reserves the right to review appointments to advisory committees, place a representative on any advisory committee, or appoint a co-adviser. Joint faculty members may serve as committee chairs. Off-campus experts and adjunct faculty who are graduate faculty scholars may not serve as committee chairs, but may serve as co-chairs. All committee members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal or final dissertation must be approved by the advisory committee with no more than one dissenting vote.

Admission to Candidacy
0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours. Evidence of successful completion of these requirements must be received by the College of Graduate Studies one day prior to the start of classes for the semester in which a student wishes to enroll in dissertation hours.
  - Completion or near completion of course work, except for dissertation hours.
  - Successful completion of the candidacy examination, including successful defense of the written dissertation proposal.
  - The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars.
  - Submittal of an approved program of study.

Grand Total Credits: 72
Program Details

As a pre-doctoral student at the beginning of the PhD program, a preliminary plan of study must be developed with the graduate program director and meet with departmental approval. At this time transfer credit will be evaluated on a course-by-course basis. The student's plan of study itemizing the study plan must be approved prior to the end of the first semester of studies by the Graduate Director of the IEMS department.

After completion of the Qualifying Examination and admission as a doctoral student, the official plan of study is developed that must meet with departmental approval. The student's dissertation committee approves the final plan of study after the Candidacy Examination is passed. These steps are normally completed within the first year of study beyond the master's degree. The degree must be completed within seven years from the date of admission as a pre-doctoral student and within four years of passing the Candidacy Examination.

The Department of Industrial Engineering and Management Systems monitors student progress and may dismiss a student if performance standards or academic progress are not maintained. Satisfactory academic performance in a program includes, but is not limited to, maintaining at least a 3.0 GPA in all graduate work taken as part of (or transferred into) the plan of study. Satisfactory performance also involves maintaining the standards of academic progress and professional integrity expected in our discipline. Failure to maintain these standards may result in dismissal from the program.

Equipment Fee

Students in the Industrial Engineering PhD program pay a $58 equipment fee each semester that they are enrolled. For part-time students, the equipment fee is $29 per semester.

Independent Learning

The Independent Learning requirement is met by successful completion of the student's candidacy and dissertation defense examinations.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
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Fellowship Information

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Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Materials Science and Engineering MSMSE

College

College of Engineering and Computer Science

Department

Department of Materials Science and Engineering

Program Website

http://mse.ucf.edu/graduate-program/

Program Handbook

Materials Science and Engineering MSMSE
Program Contact Information

Jiyu Fang PhD
Professor
jiyu.fang@ucf.edu
Telephone: 407-882-1182
Engineering I, RM 207B

Is this program available 100% online?
Yes

UCF Online

Please note: Materials Science and Engineering (MSMSE) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Materials-Science-Engineering-MS.pdf.

Program Description

The Master of Science in Materials Science and Engineering program is primarily for students with bachelor's degrees in Materials Science and Engineering or a closely related discipline.

Fields of emphasis and research for materials science and engineering include crystal growth, high temperature materials and coatings, multicomponent interdiffusion, material stability and degradation, shape memory alloys, mechanical behavior, magnetic and optical and electronic materials, thin films, solar cells, sensors, ceramics, powder metallurgy, non-equilibrium processing of materials, nano synthesis and consolidation, nanomaterials including quantum dots nanowires and nanocomposites, biomaterials, and electrochemically active materials.

This degree has 1 track: Accelerated BS to MSMBE Track. Please scroll to the bottom of this page for further details on this Track.

The Materials Science and Engineering MSMSE program offers both thesis and nonthesis options with each requiring a minimum of 30 credit hours beyond the bachelor's degree. In general, the program includes 12-15 credit hours of required courses with the remaining courses being electives except for at least six credit hours of thesis work for students in the thesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

A bachelor's degree in Materials Science and Engineering or a closely related discipline.

Prerequisites (or equivalent)

- Mathematics through Differential Equations (MAP 2302)
- Structure and Properties of Materials (EGN 3365)
- Mechanics of Materials (EGN 3331) or Thermodynamics (EGN 3343)
- Experimental Techniques in Mechanics and Materials (EMA 3012C)
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Materials Science and Engineering or a closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MSE graduate program director for more information.

Graduate Application Deadlines

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<th>Materials Science and Engineering MSMSE</th>
<th>*Fall Priority</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-5692
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
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ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits

- Complete all of the following
  - All students must take five required courses unless they hold a materials engineering undergraduate degree, in which case they may substitute an additional elective for EMA 5104.
  - Complete the following:
    - EMA5104 - Intermediate Structure and Properties of Materials (3)
    - EMA5106 - Metallurgical Thermodynamics (3)
    - EMA5317 - Materials Kinetics (3)

- Choose 1 Group

- Complete 1 of the following
  - Complete the following:
    - EMA6126 - Physical Metallurgy (3)
    - EMA6626 - Mechanical Behavior of Materials (3)
Complete the following:

- EMA5060 - Polymer Science and Engineering (3)
- EMA6319 - Colloids and Interface Engineering (3)

Elective Courses
9 Total Credits

- Complete all of the following
  - All students, both thesis and nonthesis, must take at least 9 credit hours of electives. Additional electives are listed below. Courses should be selected with faculty adviser approval. Elective course offering from outside EMA/EML are indicated by other course prefixes below:
  - Earn at least 9 credits from the following:

    - EMA5108 - Surface Science (3)
    - EMA5140 - Introduction to Ceramic Materials (3)
    - EMA5504 - Modern Characterization of Materials (3)
    - EMA6130 - Advanced Phase Transformations in Materials (3)
    - EMA6136 - Diffusion in Solids (3)
    - EMA5585 - Materials Science of Thin Films (3)
    - EMA6516 - X-ray Diffraction and Crystallography (3)
    - EMA5586 - Photovoltaic Solar Energy Materials (3)
    - EMA5584 - Biomaterials (3)
    - EMA6149 - Imperfections in Crystals (3)
    - EMA5505 - Scanning Electron Microscopy (3)
    - EMA5060 - Polymer Science and Engineering (3)
    - EMA6518 - Transmission Electron Microscopy (3)
    - EMA5705 - High Temperature Materials (3)
    - EMA6605 - Materials Processing Techniques (3)
    - EMA5610 - Laser Materials Processing (3)
    - EML6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
    - EMA6611 - Optoelectronics Materials Processing (3)
    - CHM5450 - Polymer Chemistry (3)
    - CHM5451C - Techniques in Polymer Science (3)
    - Course Not Found
    - CHM6711 - Chemistry of Materials (3)
    - EEE5332C - Thin Film Technology (3)
    - EEE5352 - Semiconductor Material and Device Characterization (3)
    - EEE6326C - MEMS Fabrication Laboratory (3)
    - EML5290 - Introduction to MEMS and Micromachining (3)
    - EML5291 - MEMS Materials (3)
    - OSE5312 - Light Matter Interaction (3)
    - OSE6432 - Guided Waves and Optoelectronics (3)
    - PHZ5405 - Condensed Matter Physics (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses: EMA 6971 Thesis
      - Thesis students must complete an independent research project, and write and successfully defend their thesis that describes the project. The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
  - Nonthesis Option
    - Complete all of the following
      - Nonthesis students are required to demonstrate their ability to perform independently in research conditions by completing either EML 6085 - Research Methods in Mechanical and Aerospace Engineering or EMA/EML 6918. In addition, they must take another elective beyond the 9 credit hours of electives described above.
      - Earn at least 3 credits from the following:
        - EML6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
        - EMA6918 - Research (1 - 99)
      - Earn at least 3 credits from the following types of courses:
        - Additional Elective Course from list above.

Grand Total Credits: 30
**Program Details**

The thesis option is primarily for those students who can devote a full-time effort to completing an independent research project that leads to a thesis. A student pursuing the thesis option may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

The nonthesis option is primarily designed for part-time and online students and requires 30 credit hours of coursework. In addition, students pursuing the nonthesis option are required to take EML 6085 - Research Methods in Mechanical and Aerospace Engineering or EMA 6918 Directed Research as part of their 30-credit-hour course requirement to demonstrate their ability to perform independently in research conditions. See the MSE program director for specific details.

All students are expected to identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. All programs of study must consist of at least 24 credit hours of required and elective courses, exclusive of thesis and research. At least half of the credit hours in a program of study must be at the 6000 level. The appropriate program of study form can be found at the program website listed above and students should consult with the MSE program director for assistance in filling out the program of study form and approval. Substitutions to the program of study must meet with the approval of the adviser and the MSE program director.

A student with an undergraduate degree outside of the materials science and engineering discipline is required to satisfy an articulation program and may have to take additional prerequisite courses.

**Equipment Fee**

Students in the Materials Science and Engineering MSMSE program pay $17 per semester for equipment each semester that they are enrolled. Part-time students pay $8.50 per semester.

**Independent Learning**

The Independent Learning Requirement is met by successful completion of a master's thesis or EML 6085 - Research Methods in Mechanical and Aerospace Engineering or EMA 6918 Directed Research for nonthesis students.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120  
Telephone: 407-823-2827  
Appointment Line: 407-823-5285  
Fax: 407-823-5241  
finaid@ucf.edu  
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127  
gradfellowship@ucf.edu  
https://funding.graduate.ucf.edu

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**Materials Science and Engineering MSMSE - Materials Science and Engineering MSMSE, Accelerated BS to MSMBE Track**

**College**

College of Engineering and Computer Science

**Department**

Department of Materials Science and Engineering

**Track Website**

http://mse.ucf.edu/graduate-program/

**Track Handbook**

Materials Science and Engineering MSMSE

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2021-2022 Graduate Catalog
**Track Contact Information**

Jiyu Fang PhD  
Professor  
jiyu.fang@ucf.edu  
Telephone: 407-882-1182  
Engineering I, RM 207B

*Is this track available 100% online?*

No

**Licensure Disclosure**

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Materials-Science-Engineering-MS.pdf.

**Track Description**

The accelerated undergraduate/graduate program in Materials Science and Engineering allows highly qualified UCF undergraduate majors in Mechanical Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Participation will enable completion of the Bachelor of Science and Master of Science degrees in five instead of six years for students enrolled in full-time course work.

The BSME is awarded after completing university requirements for the degree, including 128 total credit hours and completing of 71 credit hours of engineering courses. The MSMSE is awarded upon completion of the master's program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

A bachelor's degree in Materials Science and Engineering from UCF.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated BS to MS Program in Materials Science and Engineering allows highly qualified University of Central Florida undergraduate majors in Mechanical Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but were not previously part of this accelerated program, then they should apply to the Materials Science Engineering MS Program without a track selection. Additional information about this track may be located at: https://grad.cecs.ucf.edu/academic-programs/accelerated-bs-ms-program/.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Materials Science and Engineering or a closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the Materials graduate program director for more information.

**Graduate Application Deadlines**

<table>
<thead>
<tr>
<th>Accelerated BS to MSMSE</th>
<th><em>Fall Priority</em></th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic Applicants</td>
<td>Jan 15</td>
<td>Jul 1</td>
<td>Dec 1</td>
<td>Apr 1</td>
</tr>
<tr>
<td>International Applicants</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*

2021-2022 Graduate Catalog
Degree Requirements

Undergraduate Requirements
0 Total Credits
- Please see the current edition of the Undergraduate Catalog for additional information about engineering programs.

Required Courses
15 Total Credits
- Complete all of the following
  - All students must take five required courses unless they hold a materials engineering undergraduate degree, in which case they may substitute an additional elective for EMA 5104.
  - Complete the following:
    - EMA5104 - Intermediate Structure and Properties of Materials (3)
    - EMA5106 - Metallurgical Thermodynamics (3)
    - EMA5317 - Materials Kinetics (3)
- Choose 1 Group
  - Complete 1 of the following
    - Complete the following:
      - EMA6126 - Physical Metallurgy (3)
      - EMA6626 - Mechanical Behavior of Materials (3)
    - Complete the following:
      - EMA5060 - Polymer Science and Engineering (3)
      - EMA5060 - Polymer Science and Engineering (3)

Elective Courses
9 Total Credits
- Complete all of the following
  - All students, both thesis and nonthesis, must take at least 9 credit hours of electives. Additional electives are listed below. Courses should be selected with faculty adviser approval. Elective course offering from outside EMA/EML are indicated by other course prefixes below:
  - Earn at least 9 credits from the following:
    - EMA5108 - Surface Science (3)
    - EMA5140 - Introduction to Ceramic Materials (3)
    - EMA5504 - Modern Characterization of Materials (3)
    - EMA6130 - Advanced Phase Transformations in Materials (3)
    - EMA6136 - Diffusion in Solids (3)
    - EMA5585 - Materials Science of Thin Films (3)
    - EMA6516 - X-ray Diffraction and Crystallography (3)
    - EMA5586 - Photovoltaic Solar Energy Materials (3)
    - EMA5584 - Biomaterials (3)
    - EMA6149 - Imperfections in Crystals (3)
    - EMA5505 - Scanning Electron Microscopy (3)
    - EMA5060 - Polymer Science and Engineering (3)
    - EMA6518 - Transmission Electron Microscopy (3)
    - EMA5705 - High Temperature Materials (3)
    - EMA6605 - Materials Processing Techniques (3)
    - EMA5610 - Laser Materials Processing (3)
    - EMA5610 - Laser Materials Processing (3)
    - EMA6611 - Optoelectronics Materials Processing (3)
Thesis/Nonthesis Option

6 Total Credits

- Complete 1 of the following
- **Thesis Option**
  - Earn at least 6 credits from the following types of courses:
    - EMA 6971 Thesis
      - Thesis students must complete an independent research project, and write and successfully defend their thesis that describes the project. The College of Engineering and Computer Science requires that all thesis defense announcements be approved by the student's adviser and posted on the college's website and on the Events Calendar at the College of Graduate Studies website at least two weeks before the defense date.
- **Nonthesis Option**
  - Complete all of the following
    - Nonthesis students are required to demonstrate their ability to perform independently in research conditions by completing either EML 6085 - Research Methods in Mechanical and Aerospace Engineering or EMA/EML 6918. In addition, they must take another elective beyond the 9 credit hours of electives described above.
    - Earn at least 3 credits from the following:
      - EML6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
      - EMA6918 - Research (1 - 99)
    - Earn at least 3 credits from the following types of courses:
      - Additional Elective Course from list above.

Grand Total Credits: 30

**Track Details**

The thesis option is primarily for those students who can devote a full-time effort to completing an independent research project that leads to a thesis. A student pursuing the thesis option may not register for thesis credit hours until an advisory committee has been appointed and the committee has reviewed the program of study and the proposed thesis topic.

The nonthesis option is primarily designed for part-time and online students and requires 30 credit hours of coursework. In addition, students pursuing the nonthesis option are required to take EML 6085 - Research Methods in Mechanical and Aerospace Engineering or EMA 6918 Directed Research as part of their 30-credit-hour course requirement to demonstrate their ability to perform independently in research conditions. See the MSE program director for specific details.

All students are expected to identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. All programs of study must consist of at least 24 credit hours of required and elective courses, exclusive of thesis and research. At least half of the credit hours in a program of study must be at the 6000 level. The appropriate program of study form can be found at the program website listed above and students should consult with the MSE program director for assistance in filling out the program of study form and approval. Substitutions to the program of study must meet with the approval of the adviser and the MSE program director.

A student with an undergraduate degree outside of the materials science and engineering discipline is required to satisfy an articulation program and may have to take additional prerequisite courses.

**Equipment Fee**

Students in the Materials Science and Engineering MSMSE program pay $17 per semester for equipment each semester that they are enrolled. Part-time students pay $8.50 per semester.

**Independent Learning**

The Independent Learning Requirement is met by successful completion of a master's thesis or EML 6085 - Research Methods in Mechanical and Aerospace Engineering or EMA 6918 Directed Research for nonthesis students.
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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http://finaid.ucf.edu

Fellowship Information
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Grad Fellowships
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https://funding.graduate.ucf.edu

Materials Science and Engineering PhD

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Program Website
http://mse.ucf.edu/graduate-program/

Program Handbook
Materials Science and Engineering PhD

Program Contact Information
Jiyu Fang PhD
Professor
jiyu.fang@ucf.edu
Telephone: 407-882-1182
Engineering I, RM 207B

Pamela Ross
pamela.ross@ucf.edu
Telephone: 407-823-3806
Engineering I, RM 207D

Is this program available 100% online?
No

Licensure Disclosure
This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Materials-Science-Engineering-PhD.pdf.
**Program Description**

The Materials Science and Engineering PhD program provides students with a fundamental and applied research-based education suitable for seeking employment in industry or academia.

The Materials Science and Engineering PhD program is designed for students with a master's degree in materials science and engineering or closely related disciplines. The program provides students with a fundamental and applied research-based education suitable for seeking employment in industry or academia.

The Materials Science and Engineering PhD program requires a minimum of 72 credit hours beyond the bachelor's degree. The program requires 27 hours of formal course work exclusive of independent study and a minimum of 15 hours of dissertation research (EMA 7980). A minimum of 12 credit hours of elective coursework is required to be taken at UCF. Details of program requirements are located in the Materials Science and Engineering PhD Handbook.

**Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree**

**Program Prerequisites**

Master's and/or bachelor's degree in Materials Science and Engineering or a closely related discipline.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Master's and/or bachelor's degree in Materials Science and Engineering or a closely related discipline.
- Résumé.
- Statement about educational, research and professional career objectives should include the student's intention for full or part-time study and their desire for an assistantship or fellowship.
- Three letters of recommendation.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

**Graduate Application Deadlines**

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<thead>
<tr>
<th>Materials Science and Engineering PhD</th>
<th>*Fall Priority</th>
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<th>Spring</th>
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</tbody>
</table>

**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Jaylin Hudgen  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

- GRE: 5233  
- GMAT: RZT-HT-58  
- TOEFL: 5233  
- ETS PPI: 5233

**Degree Requirements**

Elective Courses
- Complete all of the following

The following core courses are used as the basis for the doctoral qualifying exam and are recommended, but not required:
- EMA 5104 - Intermediate Structure and Properties of Materials (3 Credit Hours)
- EMA 5106 - Metallurgical Thermodynamics (3 Credit Hours)
- EMA 5317 - Materials Kinetics (3 Credit Hours)
- EMA 6126 - Physical Metallurgy (3 Credit Hours) or EMA 6319 - Colloids and Interface Engineering (3 Credit Hours)

Elective courses that are commonly taught in Materials Science and Engineering being with the prefix EMA and EML. Other courses may be included in the elective hours with the approval of the student's faculty adviser and the Materials Science and Engineering graduate program director (indicated with another other prefix besides EMA/EML)

- Earn at least 57 credits from the following:
  - EMA 5104 - Intermediate Structure and Properties of Materials (3)
  - EMA 5106 - Metallurgical Thermodynamics (3)
  - EMA 5317 - Materials Kinetics (3)
  - EMA 6126 - Physical Metallurgy (3) or EMA 6319 - Colloids and Interface Engineering (3)
  - EMA 5108 - Surface Science (3)
  - EMA 5140 - Introduction to Ceramic Materials (3)
  - EMA 6130 - Advanced Phase Transformations in Materials (3)
  - EMA 6136 - Diffusion in Solids (3)
  - EMA 5585 - Materials Science of Thin Films (3)
  - EMA 6516 - X-ray Diffraction and Crystallography (3)
  - EMA 6516 - X-ray Diffraction and Crystallography (3)
  - EMA 5584 - Biomaterials (3)
  - EMA 5060 - Polymer Science and Engineering (3)
  - EMA 5186 - Transmission Electron Microscopy (3)
  - EMA 5705 - High Temperature Materials (3)
  - EMA 5610 - Laser Materials Processing (3)
  - EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
  - EMA 6149 - Imperfections in Crystals (3)
  - CHM 5450 - Polymer Chemistry (3)
  - CHM 5450 - Polymer Chemistry (3)
  - CHM 6711 - Chemistry of Materials (3)
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  - EEE 5352 - Semiconductor Material and Device Characterization (3)
  - EEE 6326C - MEMS Fabrication Laboratory (3)
  - EML 5290 - Introduction to MEMS and Micromachining (3)
  - EML 5291 - MEMS Materials (3)
  - OSE 5312 - Light Matter Interaction (3)
  - OSE 6432 - Guided Waves and Optoelectronics (3)
  - PHZ 5405 - Condensed Matter Physics (3)

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:

  EMA 7980 The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the student's adviser and posted on the college's website, www.cecs.ucf.edu/graddefense and on the Events Calendar of the College of Graduate Studies website at least two weeks before the defense date.

Examinations
0 Total Credits

- The doctoral qualifying exam is a multi-part exam. The initial written assessment will be conducted during the fall term. The following spring term a second written assessment as well as oral assessment will be conducted. Upon successful completion of the doctoral qualifying exam process, a student is qualified to continue studying in the PhD program. For more information about the qualifying exam please visit, http://mse.ucf.edu/graduate-program/. The candidacy exam should be taken in the academic semester the student completes 57 credit hours of required course work and is scheduled by mutual agreement of the student and his/her dissertation committee. The student must prepare a written description of their proposed dissertation research prior to the examination, and present that to their dissertation committee to review prior to the candidacy examination. Additionally, the student may be questioned orally during the exam by the dissertation committee on topics relevant to the proposed dissertation research.

Admission to Candidacy
0 Total Credits

- The following items are required to be admitted to candidacy and enroll in dissertation hours (enrollment in dissertation hours begins the semester following the completion of these requirements). Evidence of meeting these requirements must be received by the College of Graduate Studies by the day before the first day of classes for the semester in which a student wishes to enroll in dissertation hours. - Completion of 51 credit hours of course work, except for dissertation hours. - Successful completion of the qualifying examination. - Successful completion of the candidacy examination. - Successful defense of the written dissertation proposal. - The dissertation advisory committee is formed, consisting of approved Graduate Faculty and Graduate Faculty Scholars. - Submission of an approved program of study
All dissertations in Materials Science and Engineering must represent high-quality scientific work. Prior to scheduling the dissertation defense, the high quality of the research must be evidenced by: (1) two refereed journal publications with the doctoral candidate as first author that are in print, or formally accepted for publication, or (2) satisfaction of an alternative publication requirement as recommended by the Dissertation Advisory Committee and approved by a majority vote at a meeting of the program faculty (those having primary or secondary appointments in the MSE Department). The dissertation proposal must be successfully defended and accepted by the Dissertation Committee in a meeting convened for that purpose. The dissertation proposal must be a complete dissertation document provided to the committee at least two weeks prior to the date of defense. In addition, the high quality of the research must be evidenced by two refereed journal publications of the doctoral candidate as first author that are in print, or formally accepted for publication, prior to the dissertation defense. All members of the Dissertation Committee vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the advisory committee.

Grand Total Credits: 72

Program Details

Students entering the Materials Science and Engineering PhD program with a bachelor's degree are required to complete 72 credit hours of graduate coursework, of which 27 hours must be formal coursework, 12 credit hours must be elective courses taken at UCF and a minimum of 15 dissertation credit hours.

Students entering the Materials Science and Engineering PhD program with a master's degree are required to complete 72 credit hours of graduate coursework including up to 30 hours of credit transfer for formal courses from their master's degree. These students have to take at least 12 credit hours of formal elective courses as listed below at UCF and 27 credit hours of formal graduate coursework in total.

The rest of the hours in the PhD program can be chosen by the student in consultation with the adviser and the dissertation committee and with the approval of the program director.

Equipment Fee

Full-time students in the Materials Science and Engineering PhD program pay $17 per semester for equipment each semester that they are enrolled. Part-time students pay $8.50 per semester.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Mechanical Engineering MSME

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Program Website
http://www.mae.ucf.edu/
Program Contact Information

Jihua Gou PhD
Professor
jihua.gou@ucf.edu
Telephone: 407-823-5448
ENGR I - 381

Is this program available 100% online?
Yes

UCF Online

Please Note: Mechanical Engineering MSME may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-MSME.pdf.

Program Description

The Master of Science degree in Mechanical Engineering is primarily intended for students with a bachelor's degree in Mechanical or Aerospace engineering or a closely related discipline obtained from a recognized accredited institution. The program offers Mechanical Systems, Thermofluids, Guidance Control and Dynamics, and Accelerated BS to MS tracks. Please scroll to the bottom of this page for further details on these Tracks. Each track requires 30 credit hours of courses, of which 24 credit hours must be formal course work, exclusive of thesis and research.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
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UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Mechanical Engineering MSME - Mechanical Engineering MSME, Accelerated BS to MSME Track

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Track Website
http://www.mae.ucf.edu/

Track Contact Information
Jihua Gou PhD
Professor
jihua.gou@ucf.edu
Telephone: 407-823-5448
ENGR I - 381

Is this track available 100% online?
No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-MSME.pdf.

Track Description

The Accelerated Undergraduate/Graduate program in Mechanical Engineering allows highly qualified undergraduate majors in Mechanical Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Participation will enable completion of the Bachelor of Science and Master of Science degrees in five instead of six years for students enrolled in full-time course work.

The BSME is awarded after completing all university requirements, including 128 total credit hours and 71 credit hours of engineering courses. The MSME is awarded upon completion of the master's program. Courses designated in General Education Program and Common Program Prerequisites are usually completed in the first 60 hours (see engineering major requirements in the Undergraduate Catalog).

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree
**Track Prerequisites**

This track is available to University of Central Florida undergraduate majors in Mechanical Engineering only.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The **Accelerated BS to MS** program in Mechanical Engineering allows highly qualified University of Central Florida undergraduate majors in Mechanical Engineering to begin taking graduate-level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the accelerated program in either their junior year or senior year. If the student has a degree in the discipline but were not previously part of this accelerated program, then they should apply to either the **Mechanical Systems Track** or **Thermofluids Track**. Additional information about this track may be located at: https://grad.cecs.ucf.edu/academic-programs/accelerated-bs-ms-program/.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- A bachelor's degree in Mechanical Engineering.
- Résumé.
- Statement of educational, research, and professional career objectives.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Applicants should contact the MMAE graduate program director for more information.

**Graduate Application Deadlines**

<table>
<thead>
<tr>
<th>Accelerated BS to MSME</th>
<th>*Fall Priority</th>
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<th>Spring</th>
<th>Summer</th>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Jaylin Hudgen  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

2021-2022 Graduate Catalog
Degree Requirements

Undergraduate Requirements
0 Total Credits

- Please see the current edition of the Undergraduate Catalog for additional information about this program.

Required/Track Courses
24 Total Credits

- Complete 1 of the following
  - Up to 12 credit hours of approved graduate level courses of grades "B" (3.0) or better may be counted towards the BS and MS degrees. Additional notes on the Accelerated Undergraduate and Graduate Program in Mechanical Engineering are as follows: Students who change degree programs and select this major must adopt the most current catalog. Students must earn at least a "B" (3.0) in each undergraduate and graduate engineering course for them to be counted toward the major. Accelerated Mechanical Engineering students must declare their interest in either the Mechanical Systems Track or the Thermofluids Track by completing a Program of Study with their adviser.
  - Mechanical Systems Track
    - Complete all of the following
      - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
      - EML5237 - Intermediate Mechanics of Materials (3)
      - EML5271 - Intermediate Dynamics (3)
      - EML6211 - Continuum Mechanics (3)
    - Earn at least 12 credits from the following types of courses:
      - Elective Coursework as listed on the Mechanical Systems Track Catalog Page
  - Thermofluids Track
    - Complete all of the following
      - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
      - EML5152 - Intermediate Heat Transfer (3)
      - EML5713 - Intermediate Fluid Mechanics (3)
      - EML6104 - Classical Thermodynamics (3)
    - Earn at least 12 credits from the following types of courses:
      - Elective Coursework as listed on the Thermofluids Track Catalog Page

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - EML 6971 Thesis Additionally, all student pursuing the thesis option must enroll in the following course: EML 5090 - Mechanical and Aerospace Seminar (0 credit hours) Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 3 credits from the following:
        - EML6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
      - For students who are not on campus and upon prior approval from the graduate coordinator, EML 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EML 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research.
      - Earn at least 3 credits from the following types of courses:
        - Additional elective course as listed on the student's selected track catalog page

Grand Total Credits: **30**
**Track Details**

**Equipment Fee**

Students in the Mechanical Engineering MSME program pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 per semester.

**Independent Learning**

The Independent Learning requirement is met by successful completion of a master’s thesis for the thesis option. The nonthesis option independent learning experience is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, EML 6918 Directed Research (3 credit hours) may be substituted as the student’s independent learning experience. In the case substitution EML 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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**Fellowship Information**

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**Grad Fellowships**

Telephone: 407-823-0127  
gradfellowship@ucf.edu  
https://funding.graduate.ucf.edu

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**Mechanical Engineering MSME - Mechanical Engineering MSME, Guidance Control and Dynamics Track**

**College**

College of Engineering and Computer Science

**Track Website**

http://www.mae.ucf.edu/

**Track Contact Information**

Jihua Gou PhD  
Professor  
jihua.gou@ucf.edu  
Telephone: 407-823-5448  
ENGR I - 381

**Is this track available 100% online?**

Yes
**UCF Online**

**Please Note:** Mechanical Engineering MSME, Guidance Control and Dynamics Track may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

**Licensure Disclosure**

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit [https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-MSME.pdf](https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-MSME.pdf).

**Track Description**

The Master of Science in Guidance, Control and Dynamics (MSME) is designed to prepare students for careers as engineers in the aerospace industry. The curriculum is developed with strong emphasis in courses related to guidance control and dynamics with applications in aerospace engineering.

The MSME is awarded upon completion of a minimum of 30 credit hours, including 9 credit hours of required courses, 15 credit hours of elective courses selected from an approved list of courses, and an additional 6 credit hours in either a thesis or nonthesis option.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

Bachelor’s degree in Mechanical Engineering or closely related discipline. A student with an undergraduate degree outside of the selected departmental discipline may also be required to satisfy an articulation program.

**Prerequisites (or equivalent)**

- MAP 2302 - Differential Equations
- EML 3034C - Modeling Methods in Mechanical and Aerospace Engineering
- EAS 4105 - Flight Mechanics
- EAS 4134 - High-Speed Aerodynamics
- EAS 4200 - Flight Structures

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in Mechanical Engineering or closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the MSME graduate program director for further information.

**Graduate Application Deadlines**

<table>
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<tr>
<th>Guidance Control and Dynamics</th>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
9 Total Credits
- Complete all of the following
  - Complete the following:
    ■ EML5271 - Intermediate Dynamics (3)
    ■ EEL5630 - Digital Control Systems (3)
  - Complete at least 1 of the following:
    ■ EEL5173 - Linear Systems Theory (3)
    ■ EML5311 - System Control (3)

Elective Courses
15 Total Credits
- Complete at least 5 of the following:
  - EAS6403C - Attitude Determination and Control (3)
  - EAS6415 - Guidance, Navigation and Control (3)
  - EEL6616 - Adaptive Control (3)
  - EEL6621 - Nonlinear Control Systems (3)
  - EML5152 - Intermediate Heat Transfer (3)
  - EML5713 - Intermediate Fluid Mechanics (3)
  - EML6211 - Continuum Mechanics (3)
  - EML6223 - Advanced Vibrational Systems (3)
  - EML5237 - Intermediate Mechanics of Materials (3)
  - EML6155 - Convection Heat Transfer (3)
  - EML6157 - Radiation Heat Transfer (3)
  - EAS6808 - Space Environment and Payload Instrumentation (3)
  - EEL5432 - Satellite Remote Sensing (3)

Thesis/Nonthesis Option
6 Total Credits
- Complete 1 of the following
  Thesis Option
  - Earn at least 6 credits from the following types of courses:
    EML 6971 Thesis
  - Additionally, all student pursuing the thesis option must enroll in the following course: EML 5090 - Mechanical and Aerospace Seminar (0 credit hours) Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.
  Nonthesis Option
  - Complete all of the following
    ■ Earn at least 3 credits from the following:
      ■ EML6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
    ■ For students who are not on campus and upon prior approval from the graduate coordinator, EML 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EML 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research.
    ■ Earn at least 3 credits from the following types of courses:
      Additional elective course from list above.

Grand Total Credits: 30

Track Details

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. The program of study must be approved by the department and therefore students should consult with the MSME Graduate Director for assistance in filling out their program of study. Substitutions to the program of study must meet with the approval of the adviser and the department.

Equipment Fee

Students in the Mechanical Engineering MSME program pay a $90 equipment fee each semester that they are enrolled.

Independent Learning

The independent learning requirement is met by successful completion of a master's thesis for the thesis option. The nonthesis option independent learning experience is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and upon prior approval from the graduate coordinator, XXX 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of XXX 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research certifying independent learning.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Mechanical Engineering MSME - Mechanical Engineering MSME, Mechanical Systems Track

Track Website
http://www.mae.ucf.edu/

Track Contact Information

Jihua Gou PhD
Professor
jihua.gou@ucf.edu
Telephone: 407-823-5448
ENGR I - 381

Is this track available 100% online?

Yes

UCF Online

Please note: Mechanical Engineering (MSME) - Mechanical Systems may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-MSME.pdf.

Track Description

The Master of Science degree in Mechanical Engineering is primarily intended for students with a bachelor's degree in Mechanical or Aerospace engineering or a closely related discipline obtained from a recognized accredited institution.

The Mechanical Systems track in the MSME program requires 30 credit hours, including 12 credit hours of required courses, 12 credit hours of elective courses selected from a list of approved courses, and 6 credit hours in a thesis or nonthesis option.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree
**Track Prerequisites**

A bachelor's degree in Mechanical or Aerospace Engineering, or a closely related discipline. A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program and take additional prerequisites.

**Prerequisites (or equivalent)**

- Differential Equations (MAP 2302)
- Modeling Methods in Mechanical and Aerospace Engineering (EML 3034C)
- Vibrations and Controls (EML 4225)
- Mechanical Systems Laboratory (EML 4301C)
- Machine Design and Analysis (EML 3500) or Flight and Structures (EAS 4200)

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- A bachelor's degree in Mechanical or Aerospace Engineering, or a closely related discipline.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Applicants should contact the MMAE graduate program director for more information.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

**Jaylin Hudgen**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
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Online Application  
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**Mailing Address**

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Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
**Degree Requirements**

Required Courses
12 Total Credits

- Complete the following:
  - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
  - EML5237 - Intermediate Mechanics of Materials (3)
  - EML5271 - Intermediate Dynamics (3)
  - EML6211 - Continuum Mechanics (3)

Elective Courses
12 Total Credits

- Complete at least 4 of the following:
  - EML6305C - Experimental Mechanics (3)
  - EML5311 - System Control (3)
  - EML5546 - Engineering Design with Composite Materials (3)
  - EML6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II (3)
  - EML6062 - Boundary Element Methods in Engineering (3)
  - EML6227 - Nonlinear Vibration (3)
  - EML6227 - Nonlinear Vibration (3)
  - EML5066 - Computational Methods in Mechanical and Aerospace Engineering (3)
  - EML5228 - Modal Analysis (3)
  - EML5532C - Computer-Aided Design for Manufacture (3)
  - EML6572 - Probabilistic Methods in Mechanical Design (3)
  - EML6808 - Analysis and Control of Robot Manipulators (3)
  - EML6233 - Fundamentals of Fatigue Analysis (3)
  - EML6547 - Engineering Fracture Mechanics in Design (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - EML 6971 Thesis
      - Additionally, all students pursuing the thesis option must enroll in the following course: EML 5090 - Mechanical and Aerospace Seminar (0 credit hours) Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option). The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 3 credits from the following:
        - EML6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
      - For students who are not on campus and upon prior approval from the graduate coordinator, EML 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EML 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research.
      - Earn at least 3 credits from the following types of courses:
        - Additional elective course from list above.

Grand Total Credits: 30
Track Details

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. Students should consult with the MMAE Graduate Program Director for assistance in completing the program of study form. The program of study must have departmental approval and must include at least 24 credit hours of formal course work, exclusive of thesis and research. Furthermore, at least half of the credit hours must be from courses at the 6000 level. Substitutions to the program of study must meet with the approval of the adviser and the department. More information is available from the MMAE departmental website listed above.

Equipment Fee

Students in the Mechanical Engineering MSME program pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 per semester.

Independent Learning

The Independent Learning requirement is met by successful completion of a master’s thesis for the thesis option. The independent learning experience in the nonthesis option is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and with prior approval from the graduate program director, EML 6918 Directed Research (3 credit hours) may be substituted as the student’s independent learning experience. If the substitution of EML 6918 is approved, a letter must be provided by the faculty member agreeing to supervise the directed research and certifying that the experience includes independent learning.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Mechanical Engineering MSME - Mechanical Engineering MSME, Thermofluids Track

College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Track Website

http://www.mae.ucf.edu/

Track Contact Information

Jihua Gou PhD
Professor
jihua.gou@ucf.edu
Telephone: 407-823-5448
ENGR I - 381

Is this track available 100% online?

Yes

2021-2022 Graduate Catalog
**UCF Online**

**Please note:** Mechanical Engineering (MSME) - Thermofluids may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

**Licensure Disclosure**

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-MSME.pdf.

**Track Description**

The Master of Science in Mechanical Engineering is primarily intended for students with a bachelor's degree in Mechanical or Aerospace engineering or a closely related discipline obtained from a recognized accredited institution.

The Thermofluids track in the MSME program requires 30 credit hours, including 12 credit hours of required courses, 12 credit hours of elective courses selected from a list of approved courses, and 6 credit hours in a thesis or nonthesis option.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

A bachelor's degree in Mechanical or Aerospace Engineering, or a closely related discipline. A student with an undergraduate degree outside of the selected departmental discipline may be required to satisfy an articulation program and take additional prerequisites.

**Prerequisites (or equivalent)**

- Differential Equations (MAP 2302)
- Modeling Methods in Mechanical and Aerospace Engineering (EML 3034C)
- Thermodynamics of Mechanical Systems (EML 3101)
- Heat Transfer (EML 4142)
- Energy Systems Laboratory (EML 4306)
- Fluid Mechanics II (EML 4703) or Propulsion Systems (EAS 4300)

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirement, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor’s degree in Mechanical or Aerospace Engineering, or a closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of educational, research, and professional career objectives.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting applicants into their research program.

Additional courses may be required to correct deficiencies. Applicants should contact the MMAE graduate program director for more information.

**Graduate Application Deadlines**

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses

12 Total Credits

- Complete the following:
  - EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering (3)
  - EML5152 - Intermediate Heat Transfer (3)
  - EML5713 - Intermediate Fluid Mechanics (3)
  - EML6104 - Classical Thermodynamics (3)

Elective Courses

12 Total Credits

- Complete at least 4 of the following:
  - EML5402 - Turbomachinery (3)
  - EML6155 - Convection Heat Transfer (3)
  - EML6157 - Radiation Heat Transfer (3)
  - EML6725 - Computational Fluid Dynamics and Heat Transfer I (3)
  - EML6131 - Combustion Phenomena (3)
  - EML6154 - Conduction Heat Transfer (3)
  - EAS6185 - Turbulent Flow (3)
  - EML6712 - Mechanics of Viscous Flow (3)
  - EAS6138 - Advanced Gas Dynamics (3)
  - EAS5302 - Direct Energy Conversion (3)
  - EAS5315 - Rocket Propulsion (3)
  - EML5026C - Computational Engineering Analysis (3)
  - EML5066 - Computational Methods in Mechanical and Aerospace Engineering (3)
  - EML5105 - Gas Kinetics and Statistical Thermodynamics (3)
  - EML6062 - Boundary Element Methods in Engineering (3)
  - EML6144 - Boiling and Condensation Heat Transfer (3)
  - EML6726 - Computational Fluid Dynamics and Heat Transfer II (3)

Thesis/Nonthesis Option

6 Total Credits

- Complete 1 of the following
  - Thesis Option
  - Earn at least 6 credits from the following types of courses:
    - EML 6971 Thesis
    - EML 5090 - Mechanical and Aerospace Seminar (0 credit hours)
    - Students must register for the seminar course a minimum of two times during their graduate career in the master's program (thesis option).
    - The students must also complete the course with a satisfactory (S) grade in both attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.
  - Nonthesis Option
  - Complete all of the following
    - Earn at least 3 credits from the following:
      - EML6085 - Research Methods in Mechanical and Aerospace Engineering (3 - 99)
      - EML 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. In the case substitution EML 6918 is approved, a letter must be provided by the member of the faculty supervising the directed research.
      - Earn at least 3 credits from the following types of courses:
        - Additional elective course from list above.

Grand Total Credits: 30
Track Details

All students must identify an adviser and file an official degree program of study prior to the completion of 9 credit hours of study. The program of study must have departmental approval and students should consult with the MMAE Graduate Program Director for assistance in completing their program of study form. At least 24 hours of the program of study must include formal course work, exclusive of thesis and research, and at least half of the credit hours must be from courses at the 6000 level. Substitutions to the program of study must meet with the approval of the adviser and the department. More information is available from the MMAE departmental website listed above.

Equipment Fee

Students in the Mechanical Engineering MSME program pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 per semester.

Independent Learning

The Independent Learning requirement is met by successful completion of a master's thesis for the thesis option. The independent learning experience in the nonthesis option is provided by the required course, EML 6085 - Research Methods in Mechanical and Aerospace Engineering (3 credit hours). For students who are not on campus and with prior approval from the graduate program director, EML 6918 Directed Research (3 credit hours) may be substituted as the student's independent learning experience. If the substitution of EML 6918 is approved, a letter must be provided by the faculty member agreeing to supervise the directed research and certifying that the experience includes independent learning.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Mechanical Engineering PhD

College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Program Website

http://www.mae.ucf.edu/

Program Contact Information

Jihua Gou PhD
Professor
jihua.gou@ucf.edu
Telephone: 407-823-5448
ENGR I - 381

Is this program available 100% online?

No
Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Mechanical-Engineering-PhD.pdf.

Program Description

The Mechanical Engineering PhD program prepares students with an in-depth study and emphasis on research in Aerospace Systems, Mechanical Systems, or Thermofluids.

The Doctor of Philosophy degree in Mechanical Engineering is intended for students with a master's or a bachelor's degree in Mechanical or Aerospace engineering or a closely related discipline. The doctoral program is intended to allow students to study in-depth, with an emphasis on research in Aerospace Systems, Mechanical Systems, or Thermofluids.

The Mechanical Engineering PhD program requires a minimum of 72 credit hours beyond a bachelor's degree. This program requires 15 dissertation credit hours minimum and may include up to a total of 12 credit hours combined of directed (XXX 6918) or doctoral research (XXX 7919) and/or of independent study (6908) with an approved Program of Study. At least 39 hours of the program of study must consist of formal coursework, exclusive of directed research (XXX 6918), doctoral research (XXX 7919) and independent study (XXX 6908). The rest of the hours can be chosen by the student in consultation with the adviser and the dissertation committee and with the approval of the graduate program coordinator. Details about this program are located in the Mechanical Engineering PhD Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree
42 Credit hours minimum beyond the master's degree.

Program Prerequisites

Bachelor's or Master's degree in Mechanical or Aerospace Engineering or a closely related discipline.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's or Master's degree in Mechanical or Aerospace Engineering or a closely related discipline.
- The GRE is not required for admission to this program.
- Résumé.
- Statement about educational, research, and professional career objectives.
- Three letters of recommendation.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the graduate program director for more information.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
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Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Seminar

0 Total Credits

- Complete all of the following
  - Earn at least 0 credits from the following:
    - EML5090 - Mechanical and Aerospace Seminar (99)
  - The MAE Graduate Seminar is a zero credit hour (S/U) course that is offered each fall and spring academic semesters. Prior to graduation, all MAE graduate students who are pursuing PhD dissertation required to register, participate, and receive a satisfactory (S) for four semesters of MAE Graduate seminar, with at least two of these taken prior to candidacy.

Elective Courses

57 Total Credits

- Earn at least 57 credits from the following types of courses:
  - May include up to a total of 12 credit hours combined of Directed (XXX 6918) or Doctoral Research (XXX 7919) and/or of Independent Study (6908) At least 45 credit hours must be formal coursework, exclusive of independent study, doctoral research and/or directed research.

Dissertation

15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - EML 7980 15 Credit Hours minimum

Examinations

0 Total Credits

- In addition to the Qualifying Examination discussed above, the student must pass a Candidacy Examination and a Dissertation Defense Examination. The Candidacy Examination is taken near the end of the course work and consists of a written and oral presentation of a research proposal. The MMAE department requires that a PhD student submits his/her candidacy exam the academic semester immediately following his/her successfully passing the PhD Qualifying Exam. The Dissertation Defense Examination is an oral examination taken in defense of the written dissertation. The College of Engineering and Computer Science requires that all dissertation defense announcements are approved by the student’s advisor and posted on the college's website and on the Events Calendar of the College of Graduate Studies website at least two weeks before the defense date. More information on these examinations and other requirements of the PhD program are contained in the Mechanical Engineering PhD Handbook.

Dissertation Committee

0 Total Credits

- The doctoral committee must consist of a minimum of five members: three must be graduate faculty members from within the student's department, and one must be at large from outside the Mechanical, Materials and Aerospace Engineering Department. The committee Chair must be a member of the graduate faculty approved to direct dissertations. Joint faculty members serve as department-faculty committee members as well as chairs of dissertation committees. Adjunct faculty and off-campus experts, if approved graduate faculty scholars, may serve as the outside-the-college person in the committee. Program areas may further specify additional committee membership. The UCF College of Graduate Studies reserves the right to review appointments to advisory committees, place a representative on any advisory committee, or appoint a co-adviser. All members vote on acceptance or rejection of the dissertation proposal and the final dissertation. The dissertation proposal and final dissertation must be approved by a majority of the advisory committee.

Admission to Candidacy

0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours (enrollment in dissertation hours begins the semester following the completion of these requirements). Evidence of meeting these requirements must be received by the College of Graduate Studies by the day before the first day of classes for the semester in which a student wishes to enroll in dissertation hours. Completion of all course work, except for dissertation hours. Successful completion of the candidacy examination. Successful defense of the written dissertation proposal. The dissertation advisory committee is formed, consisting of approved Graduate Faculty and Graduate Faculty Scholars. Submission of an approved program of study.

Grand Total Credits: 72
Program Details

Students entering the program with a master’s degree are required to complete 42 credit hours minimum, of which 15 credit hours minimum must be formal coursework, exclusive of directed research (XXX 6918), doctoral research (XXX 7919), and independent study (XXX 6908), and 15 credit hours minimum of dissertation research (XXX 7980). No more than 12 credit hours combined of directed (XXX 6918) or doctoral research (XXX 7919) and/or independent study (XXX 6908) may be taken toward fulfilling the degree program of study coursework requirements.

Students entering the program with a bachelor’s degree are required to complete 72 credit hours minimum, of which 39 credit hours minimum must be formal coursework, exclusive of directed research (XXX 6918), doctoral research (XXX 7919), and independent study (XXX 6908), and 15 credit hours minimum of dissertation research (XXX 7980). No more than 12 credit hours combined of directed (XXX 6918) or doctoral research (XXX 7919) and/or independent study (XXX 6908) may be taken toward fulfilling the degree program of study coursework requirements.

The rest of the hours in the PhD program can be chosen by the student in consultation with the adviser and the dissertation committee and with the approval of the Graduate Coordinator. These credit hours may include doctoral directed research hours or doctoral dissertation hours.

Unless a completed (signed) program of study itemizing the study plan is approved prior to the end of the first semester of studies, the Graduate Director of the MMAE department may choose not to accept any part of the coursework (including independent studies and/or directed research) taken by the student on a program of study subsequently submitted by the student.

Admission to doctoral status requires that the student (1) pass a PhD Qualifying Examination, (2) establish a Doctoral Advisory Committee and (3) submit a departmentally approved Program of Study. These steps are normally completed within the first year of study beyond the master’s degree.

Students must register for the seminar course a minimum of four times during their graduate career in the doctoral program. Students must complete the EML 5936 seminar course twice prior to taking the candidacy exam and twice after completing the candidacy exam. The students must also complete the course with a satisfactory (S) grade in all attempts. If the student does not complete the course with a satisfactory grade, the student will be asked to repeat the course to meet program requirements.

Equipment Fee

Students in the Mechanical Engineering PhD program pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 per semester.

MAE Department Graduate Seminar Requirement

The MAE Graduate seminar is a zero (0) credit hour (S/U) course that is offered each fall and spring academic semesters. Prior to graduation, all MAE graduate students who are pursuing a PhD dissertation are required to register, participate, and receive a satisfactory (S) for four (4) semesters of MAE Graduate seminar, with at least two of these taken prior to candidacy.

Independent Learning

The Independent Learning Requirement is met by successful completion of the student’s candidacy and dissertation defense examinations.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

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finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student’s graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Mixed Reality Engineering Graduate Certificate
College
College of Engineering and Computer Science

Department
Department of Computer Science

Program Contact Information
Joseph J. LaViola Jr.
Professor
jjl@cs.ucf.edu
Harris Engineering Center, Room 321
Phone: 407-882-2285

Is this program available 100% online?
No

Program Description
The Graduate Certificate in Mixed Reality Engineering aims to provide students with a comprehensive overview of virtual and augmented reality technologies culminating in the development of a mixed reality software application or system.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is open to those with a bachelor's degree in computer science or a closely related discipline from an accredited institution recognized by UCF with a minimum GPA of 3.0. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

Applications are accepted for the fall and spring terms only.

Graduate Application Deadlines

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Graduate School Contact
Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
9 Total Credits

- Complete the following:
  - CAP5115 - Virtual Reality Engineering (3)
  - CAP6110 - Augmented Reality Engineering (3)
  - CAP6117 - Mixed Reality Project (3)

Grand Total Credits: 9

Project Engineering Graduate Certificate

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Program Website
http://www.iems.ucf.edu/

Program Contact Information

Mansooreh Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Is this program available 100% online?

Yes

UCF Online

Please note: Project Engineering Graduate Certificate may be completed fully online, although not all elective options or program
prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes
may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring
semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements
for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current
information.

Program Description

The Graduate Certificate in Project Engineering is designed to meet the needs of engineers moving into management and other
leadership roles.

The certificate program compliments their technical backgrounds with the human aspects, organizational and financial issues, project
considerations, and analytical tools for effective decision making.

For the Project Engineering certificate, students complete three required courses and one elective course, for a total of 12 credit
hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Admission is open to those with a bachelor’s degree in industrial engineering or a closely related discipline from an accredited
institution recognized by UCF.

Application Requirements

Admission is open to those with a bachelor’s degree in industrial engineering or a closely related discipline from an accredited
institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants
must apply online. All requested materials must be submitted by the established deadline.

Applications are accepted for the fall and spring terms only.
Graduate Application Deadlines

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Graduate School Contact

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gradadmissions@ucf.edu
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Millican Hall 230
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Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Required Courses  
9 Total Credits

- Complete the following:
  - EIN5108 - The Environment of Technical Organizations (3)
  - EIN5117 - Management Information Systems I (3)
  - EIN5140 - Project Engineering (3)

Elective Courses  
3 Total Credits

- Complete at least 1 of the following:
  - EIN6357 - Advanced Engineering Economic Analysis (3)
  - ESI6358 - Decision Analysis (3)

Grand Total Credits: 12

Quality Assurance Graduate Certificate

College

College of Engineering and Computer Science

Department

Department of Industrial Engineering and Management Systems

Program Website

http://www.iems.ucf.edu/

Program Contact Information

Mansooreh Mollaghasemi PhD  
Associate Professor  
mollagha@ucf.edu  
Engineering 2, Room 312

Is this program available 100% online?

Yes
Please note: Quality Assurance Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Quality Assurance is designed to provide students with the knowledge and tools they need to help them understand how to increase process and product performance and to improve the quality and reliability of goods and services in any manufacturing, healthcare, and other service organizations.

Much of the resurgence of U.S. companies and service organizations in the global marketplace has been due to an increased emphasis on quality. Today’s consumers are offered many alternatives to meet their needs, and they have consequently become very discriminating in their purchases. In addition, companies seek to be known as a quality organization, not merely the producer of quality products. The Graduate Certificate in Quality Assurance provides students with the knowledge they need to increase process and product performance, to improve the quality and reliability of goods and services and to institute steps to make their organizations more competitive through an overall commitment to quality.

For the Quality Assurance certificate, students complete three required courses and one elective course, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Admission is open to those with a bachelor’s degree in industrial engineering or a closely related discipline from an accredited institution recognized by UCF.

Application Requirements

Admission is open to those with a bachelor’s degree in industrial engineering or a closely related discipline from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applications are accepted for the fall and spring terms only.

Graduate Application Deadlines

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<th>Quality Assurance Graduate Certificate</th>
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Mailing Address

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
9 Total Credits

- Complete the following:
  - ESI5219 - Engineering Statistics (3)
  - ESI5236 - Reliability Engineering (3)
  - ESI6225 - Quality Design and Control (3)

Elective Courses
3 Total Credits

- Complete at least 1 of the following:
  - ESI5227 - Total Quality Improvement (3)
  - ESI6224 - Quality Management (3)

Grand Total Credits: 12

Smart Cities Graduate Certificate

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Program Website
http://www.cece.ucf.edu/

Program Contact Information

Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this program available 100% online?
No

Program Description

In 2017, FUTURe CIty initiative was launched by Civil, Environmental and Construction Engineering (CECE) in the College of Engineering and Computer Science (CECS). FUTURE CIty initiative at UCF brings together a group of researchers and educators with a vision to synergistically explore the wide-ranging technological advances towards better serving urban residents. Towards furthering this vision, we envision this graduate certificate in Smart Cities to provide engineers and urban planners with a background in Smart Cities.

The certificate offers a 9 credit program with flexible course options listed below.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vitae
Graduate Application Deadlines

<table>
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<tr>
<th>Smart Cities Graduate Certificate</th>
<th>*Fall Priority</th>
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Graduate School Contact

Jaylin Hudgen

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
3 Total Credits

- Complete the following:
  - CGN5341 - Interdisciplinary Introduction to Smart Cities' Applications (3)

Elective Courses
6 Total Credits

- Complete at least 2 of the following:
  - CCE5220 - Sustainable Infrastructure Systems (3)
  - CEG6610 - Smart Underground Structures: Tunnels and Shafts (3)
  - CES6876 - Smart City Built Infrastructure (3)
  - CGN5340 - Internet of Things: Applications in Smart Cities (3)
  - CGN5617 - Infrastructure Systems Optimization and Identification (3)
  - CGN6342 - Modeling Human Behavior with Emerging Data (3)
  - CGN6343 - Cyber-Physical Systems and Smart Cities (3)
  - ENV6128 - Smart Air Quality Monitoring and Air Pollution Control (3)
  - ENV6533 - Smart Water and Wastewater Management (3)
  - TTE5531 - Active Mobility and Technologies: Synergy and Challenges (3)
  - TTE5532 - Policy Aspects of Smart City Transportation (3)
  - TTE6270 - Intelligent Transportation Systems (3)
  - TTE6275 - Connected and Autonomous Vehicles (3)
  - TTE6533 - Mobility in Smart Cities: Technologies and Application Areas (3)
  - TTE6608 - Algorithms and Models for Smart Cities (3)

Grand Total Credits: 9

Structural Engineering Graduate Certificate

College

College of Engineering and Computer Science

Department

Department of Civil, Environmental, and Construction Engineering
Program Website
http://www.cece.ucf.edu/graduate/

Program Contact Information

Andrew Randall PhD PE
Professor
andrew.randall@ucf.edu
Telephone: 407-823-6429
Engineering II, 211-L

Ana Lucia Salas
Graduate Student Services Coordinator
AnaLucia.Salas@ucf.edu
Telephone: 407-823-1299
Engineering II, 211-K

Is this program available 100% online?

No

Program Description

The Graduate Certificate in Structural Engineering provides qualified engineers and students with the knowledge to analyze and design structures that will perform safely.

Structural engineering plays a significant role in the ongoing infrastructure developments in the central Florida area. Engineers continually need to update their knowledge of the state-of-the-art in research and practice in order to ensure the safety of constructed facilities. The Graduate Certificate in Structural Engineering is designed to advance the knowledge of civil and structural engineers. The Graduate Certificate is a good way for qualified students to sample the graduate programs in this area. However, because these are graduate level classes, students must have an undergraduate degree in Civil Engineering or closely related discipline in order to be admitted.

For the Structural Engineering certificate, students have the flexibility to choose four courses from a list of approved engineering courses, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Admission is open to those with a bachelor's degree in Civil or Mechanical Engineering from an accredited institution recognized by UCF.

Application Requirements

Admission is open to those with a bachelor's degree in Civil or Mechanical Engineering from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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gradadmissions@ucf.edu  
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Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

Required Courses  
12 Total Credits

- Complete at least 4 of the following:
  - CEG6115 - Foundation Engineering (3)  
  - CES5144 - Matrix Methods for Structural Analysis (3)  
  - CES5325 - Bridge Engineering (3)  
  - CES5606 - Advanced Steel Structures (3)  
  - CES5706 - Advanced Reinforced Concrete (3)  
  - CES6010 - Structural Reliability (3)  
  - CES6116 - Finite Element Structural Analysis (3)  
  - CES6209 - Dynamics of Structures (3)  
  - CES6220 - Wind and Earthquake Engineering (3)  
  - CES6230 - Advanced Structural Mechanics (3)  
  - CES6527 - Nonlinear Structural Analysis (3)  
  - CES6715 - Prestressed Concrete Structures (3)

Grand Total Credits: 12

**Sustainable and Resilient Energy Systems Graduate Certificate**

**College**

College of Engineering and Computer Science

**Department**

Department of Electrical and Computer Engineering

**Program Website**

https://www.ece.ucf.edu

**Program Contact Information**

Kalpathy Sundaram PhD  
Professor  
ece-grad@cecs.ucf.edu  
Telephone: 407-823-5326  
HEC 439B

**Is this program available 100% online?**

No
Program Description

The Graduate Certificate in “Sustainable and Resilient Energy Systems” provides students with an interdisciplinary curriculum focused on technologies and policies for future smart energy systems that are sustainable, resilient, efficient, and market-oriented. The program prepares students for holistic design and operation challenges of emerging energy systems with distributed renewable energy sources, advanced information, communication, control and optimization technologies, along with supporting economic and management policies. This graduate certificate is beneficial to individuals (professionals, engineers and researchers) who have an interest in deployment and operation of future smart energy systems, in particular the challenges from the technology and policy perspectives.

UCF Partnerships

The Sustainable and Resilient Energy Systems certificate partners with several UCF master's programs. If students complete the certificate and are accepted into a partnering program, all certificate coursework can be used toward that master's degree. Here is a list of our partnering UCF master's programs:

- Electrical Engineering MSEE
- Computer Engineering MSCpE

The Graduate Certificate in Sustainable and Resilient Energy Systems requires a total of 12 credit hours (4 courses). Nine credit hours are from the three required courses given below. The remaining three credit hours can be selected from the list of elective courses. Electives outside of the provided list require approval from the ECE graduate coordinator.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vitae

Graduate Application Deadlines

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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

- GRE: 5233
- GMAT: RZT-HT-58
- TOEFL: 5233
- ETS PPI: 5233
Degree Requirements

Required Courses
9 Total Credits

- Complete the following:
  - EEL5297 - Introduction to Smart Grid (3)
  - EEE5781 - Cyber-Physical Technologies for Smart Communities (3)
  - PAD5887 - Energy Policy (3)

Elective Courses
3 Total Credits

- Complete all of the following
  - Complete at least 1 of the following:
    - EEL5268 - Communications and Networking for Smart Grid (3)
    - EEL5291 - Distributed Control and Optimization for Smart Grid (3)
    - EMA5586 - Photovoltaic Solar Energy Materials (3)
    - EEL6257 - Data Analytics in Energy Systems (3)
    - EEE6712 - Modeling and Analysis of Networked Cyber-Physical Systems (3)
    - PAD6357 - Urban Resilience (3)
  - EEL 5937 - Special Topics may also be taken

Grand Total Credits: 12

Systems Engineering Graduate Certificate

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Program Website
http://www.iems.ucf.edu/

Program Contact Information

Mansooreh Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Is this program available 100% online?
Yes

UCF Online

Please note: Systems Engineering Graduate Certificate may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Systems Engineering focuses on introducing students to the fundamentals of systems requirements, architecture, and integration and testing. Systems Engineering is an interdisciplinary approach and means to enable the realization of successful systems. Systems Engineering integrates all the disciplines and specialty groups into a team effort forming a structured development process that proceeds from concept to production to operation. Systems Engineering considers both the business and the technical needs of all customers with the goal of providing a quality product that meets the user needs.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree
Program Prerequisites

Admission is open to those with a bachelor’s degree in engineering or a closely related discipline from an accredited institution recognized by UCF.

Application Requirements

Admission is open to those with a bachelor’s degree in engineering or a closely related discipline from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc only.

Applications are accepted for the fall and spring terms only.

Graduate Application Deadlines

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ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - EIN5140 - Project Engineering (3)
  - ESI6511 - Systems Integration and Testing (3)
  - ESI6551 - Systems Engineering (3)
  - ESI6552 - Systems Architecture (3)

Grand Total Credits: 12

Systems Engineering, MSSE

College

College of Engineering and Computer Science

Department

Department of Industrial Engineering and Management Systems
Program Website

http://www.iems.ucf.edu/

Program Contact Information

Mansooreh Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

Is this program available 100% online?

Yes

UCF Online

Please note: Systems Engineering MSEE may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CECS-Systems-Engineering-MSSE.pdf.

Program Description

The Master of Science in Systems Engineering (MSSE) is a fully online program that focuses on applications of systems engineering in designing, developing, integrating, and evaluating complex systems through their life cycle. This unique program is offered in response to the growing needs of the industry where systems thinking, complexity, globalization, quality, and productivity are the key business drivers.

The MSSE requires 30 credit hours of courses beyond the bachelor's degree. This program offers only the non-thesis option.

This web-based online MSSE is designed to attract students with a variety of educational backgrounds and a keen interest in working as systems engineers, program/project managers, chief engineers, etc. The traditional engineer and scientist often lack preparation in the human, financial, software, and systems integration skills necessary to make project teams more productive, improve system and service quality, and promote the advancement of high technology for complex systems. Systems engineering is a practice-based discipline that focuses on developing these attributes with elements of engineering, systems, and management.

For information about the program, please contact IEMS Graduate Director Dr. Mansooreh Mollaghasemi Elshennawy (mollagha@ucf.edu).

Translating a specific design into an organizational or physical reality in the most effective manner, and with the highest quality, is the focus of the Industrial Engineering and Management Systems field. This program is tailored to meet the needs of a broad range of working professionals interested in leading systems engineering and management activities. This program was designed by industry to provide the skills needed to be successful in the defense, government, healthcare, etc., sectors that require engineers who can collect requirements, architect, and integrate human, software, and hardware elements of modern systems.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Students with undergraduate degrees in industrial or systems engineering or other engineering degrees are encouraged to apply for admission. Graduates from science or technology curricula may apply to obtain the MS degree.

All applicants are expected to have completed the following prerequisites during their undergraduate engineering education:

- Mathematics through Calculus II (MAC 2312 or equivalent)
- Undergraduate probability and statistics for engineers (STA 3032 or equivalent)
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Resume or Curriculum Vita
- Goal statement
  - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of an MSSE. Future educational and career goals after the completion of the applicant's master study should be discussed.
  - If the applicant is interested in completing a Master thesis, then the applicant must clearly describe the particular area of research interest. The applicant should identify at least one UCF faculty member who shares a similar research focus and is believed to be best suited to serve as a potential thesis advisor.
  - The goal statement should be between 500 and 1,000 words.
- Two letters of recommendation
  - The letters of recommendation should be from faculty members, university administrators, and employers with a supervisory role of the applicant. The letters, which must be current to the application and must not be for another degree program, should address the educational and career goals of the applicant. The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program. Letters for Master’s thesis students must discuss the applicant's ability to perform graduate-level research.
  - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applications are accepted for the fall and spring terms only.

Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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gradadmissions@ucf.edu
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UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

2021-2022 Graduate Catalog
Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - ESI6551 - Systems Engineering (3)
  - ESI6552 - Systems Architecture (3)
  - EIN5140 - Project Engineering (3)
  - ESI6511 - Systems Integration and Testing (3)

Concentration Courses
9 Total Credits

- Complete the following:
  - ESI6224 - Quality Management (3)
  - EIN6357 - Advanced Engineering Economic Analysis (3)
  - ESI6550 - Systems Thinking in Engineering (3)

Elective Courses
9 Total Credits

- Complete 1 of the following
  - Simulation, Optimization and Modeling
    - Complete at least 3 of the following:
      - EIN5255C - Interactive Simulation (3)
      - EIN6528 - Simulation Based Life Cycle Engineering (3)
      - EIN6936 - Seminar in Advanced Industrial Engineering (3)
      - ESI5531 - Discrete Systems Simulation (3)
      - ESI6217 - Statistical Aspects of Digital Simulation (3)
      - ESI6336 - Queueing Systems (3)
      - ESI6532 - Object-Oriented Simulation (3)
  - Management Systems
    - Complete at least 3 of the following:
      - EINS108 - The Environment of Technical Organizations (3)
      - EINS117 - Management Information Systems I (3)
      - EIN6182 - Engineering Management (3)
      - EIN5356 - Cost Engineering (3)
      - ESI5227 - Total Quality Improvement (3)
  - Quality and Production Systems
    - Complete at least 3 of the following:
      - ESI6225 - Quality Design and Control (3)
      - EIN6336 - Production and Inventory Control (3)
      - EIN5356 - Cost Engineering (3)
      - ESI5227 - Total Quality Improvement (3)
  - Human System Integration
    - Complete at least 3 of the following:
      - EIN5248 - Ergonomics (3)
      - EIN5251 - Usability Engineering (3)
      - EIN6258 - Human Computer Interaction (3)
      - EIN6271 - Human Reliability (3)

Grand Total Credits: 30

Program Details

Independent Learning

The Independent Learning requirement is met by successful completion of the research studies required in the individual courses. Systems engineering by definition is an interdisciplinary major requiring independent learning across a wide spectrum of management, technology, and traditional engineering. These research studies require that students integrate material from all the courses in their program. The Systems Integration class, which is the fourth course in the core sequence, builds prior classes and requires independent research to describe, architecture, model, and ultimately integrate and test complex products and services.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Technologies for Smart Communities Graduate Certificate

College
College of Engineering and Computer Science

Department
Department of Electrical and Computer Engineering

Program Website
www.ece.ucf.edu

Program Contact Information

Kalpathy Sundaram PhD
Professor
eece-grad@cecs.ucf.edu
Telephone: 407-823-5326
HEC 439B

Is this program available 100% online?

No
Program Description

The Graduate Certificate in Technologies for Smart Communities provides students with an interdisciplinary curriculum focused on technologies that enable smart and connected communities of the future. The program prepares students for design and operation challenges of emerging smart and connected communities, in particular from technology perspective.

This graduate certificate is beneficial to individuals (professionals, engineers and computer scientists) who have an interest in deployment and operation of smart and connected communities, in particular the challenges that pertain to communications, sensing, and control technologies.

UCF Partnerships

The Technologies for Smart Communities certificate partners with several UCF master's programs. If students complete the certificate and are accepted into a partnering program, all certificate coursework can be used toward that master's degree. Here is a list of our partnering UCF master's programs:

- Electrical Engineering MSEE
- Computer Engineering MSCpE

The Graduate Certificate in Technologies for Smart Communities requires a total of 12 credit hours (4 courses). Six credit hours are from two required courses given below. The remaining six credit hours can be selected from the list of elective courses. Electives outside of the provided list require approval from the ECE graduate coordinator.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vitae

Graduate Application Deadlines

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Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

2021-2022 Graduate Catalog
**Degree Requirements**

**Required Courses**
6 Total Credits

- Complete the following:
  - EEE5781 - Cyber-Physical Technologies for Smart Communities (3)
  - EEL6257 - Data Analytics in Energy Systems (3)

**Elective Courses**
6 Total Credits

- Complete at least 2 of the following:
  - EEL5297 - Introduction to Smart Grid (3)
  - PAD5887 - Energy Policy (3)
  - EEL5268 - Communications and Networking for Smart Grid (3)
  - EEL6683 - Cooperative Control of Networked Autonomous Systems (3)
  - EEL5669 - Introduction to Robotics and Autonomous Vehicles (3)
  - EEE6712 - Modeling and Analysis of Networked Cyber-Physical Systems (3)
  - EEL6590 - Advanced Topics in Communications (3)
  - EEL6788 - Advanced Topics in Computer Networks (3)
  - EEL5291 - Distributed Control and Optimization for Smart Grid (3)

Grand Total Credits: 12

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**Training Simulation Graduate Certificate**

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Program Website**
http://www.iems.ucf.edu/

**Program Contact Information**
Mansooreh Mollaghasemi PhD
Associate Professor
mollagha@ucf.edu
Engineering 2, Room 312

**Is this program available 100% online?**
No

**Program Description**

**This program has suspended admissions effective Fall 2020**
The Graduate Certificate in Training Simulation provides a fundamental understanding of the significant topics regarding systems, requirements, design, development and use of training simulations.

Due to the tremendous growth in military and commercial training simulation, many people in this industry are facing the need for additional education.

**Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree**

**Program Prerequisites**
Admission is open to those with a bachelor’s degree in industrial engineering or a closely related discipline from an accredited institution recognized by UCF.
Application Requirements

Admission is open to those with a bachelor’s degree in industrial engineering or a closely related discipline from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc only.

Applications are accepted for the fall and spring terms only.

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete all of the following
  - Complete the following:
    - EIN5255C - Interactive Simulation (3)
    - EME6613 - Instructional System Design (3)
- Earn at least 3 credits from the following types of courses:
  EIN 6645 - Real-Time Simulation Agents 3 Credit Hours

Grand Total Credits: 9

Transportation Engineering Graduate Certificate

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Program Website
http://www.cece.ucf.edu/graduate/
Is this program available 100% online?

No

Program Description

The Graduate Certificate in Transportation Engineering is designed for professionals who are faced with solving transportation needs. Transportation engineering is crucial for the Orlando area.

As gridlock becomes more evident, more skilled professionals will be needed.

For the Transportation Engineering certificate, students have the flexibility to choose four courses from a list of approved engineering courses, for a total of 12 credit hours.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Students must have completed an undergraduate Transportation course (such as TTE 4004) or an equivalent.

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Students must have completed an undergraduate Transportation course (such as TTE 4004) or an equivalent.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Transportation Engineering Graduate Certificate</th>
<th>*Fall Priority</th>
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Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete at least 4 of the following:
  - CGN6655 - Regional Planning, Design, and Development (3)
  - TTE5204 - Traffic Engineering (3)
  - TTE6256 - Traffic Operations (3)
  - TTE5805 - Geometric Design of Transportation Systems (3)
  - TTE6205 - Highway Capacity (3)
  - TTE6270 - Intelligent Transportation Systems (3)
  - TTE6315 - Traffic Safety Analysis (3)
  - TTE6526 - Planning and Design of Airports (3)
  - TTE6625 - Mass Transportation Systems (3)

Grand Total Credits: 12

Travel Technology and Analytics MS

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Program Website
https://www.ucf.edu/degree/travel-technology-and-analytics-ms/

Program Contact Information

Naveen Eluru PhD
Associate Professor
naveen.eluru@ucf.edu
Telephone: 407-823-4815
Engineering II - RM 301D

Is this program available 100% online?
Yes

UCF Online

Please note: Travel Technology and Analytics MS may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

The interdisciplinary Master of Science in Travel Technology and Analytics, offered jointly by the College of Engineering and Computer Science (Departments of Computer Science; Industrial Engineering and Management Systems; Civil, Environmental, and Construction Engineering) and the Rosen College of Hospitality Management (Departments of Tourism, Events, and Attractions; Hospitality Services), introduces graduate students to the technical aspects of big data analytics, including predictive analytics, algorithm design and models for SMART-cities, SMART-technologies and travel systems, and service systems quality engineering, in the specific context of global travel and tourism. The value and importance of such a program is demonstrated by travel and tourism and is the number one industry globally with immense economic, social, cultural and environmental impacts. Locally, the program promises to deliver significant value for the industry benefitting from a large number of visitors to the state and especially central Florida.

This powerful industry with $8.3 trillion in economic benefits globally, which functions at the intersection of engineering and management, is being transformed by rapidly increasing technological innovations and advances and is adapting to these changes by creating new employment opportunities to match. The dynamic nature of the industry and technological advances reveal the need for a workforce with advanced skills: fluency in data science and analytics, understanding of complex travel systems, strategic problem solving, big-picture thinking, technical knowledge, and practical skills aligned with technological advances. The changing nature of travel and tourism employment reveals emerging positions in areas of online travel agencies [OTA], global distribution systems [GDS], data analytics, data architecture, predictive analytics, mobile devices, travel apps, geolocation, data visualization, data translation, programming, interface design, virtual reality [VR], augmented reality [AR], hologram technology, travel click technology, business intelligence [BI], social media management, SMART-city design and development, and SMART-technologies and travel systems. The broader travel industry and its subsectors (transportation, lodging, and attractions) are experiencing the disruptive effects of direct and indirect distribution impacted by mobile devices, e-commerce, role of IT in distribution and dynamic pricing, and a highly perishable inventory (e.g., hotel rooms, airline seats) as well as those of artificial intelligence (AI) and machine learning and becoming increasingly more dependent on analytics as a key facet of business strategy.

Highlights:

- Academically-rich, industry-relevant interdisciplinary program
- Flexible course offerings in face-to-face, mixed and online modalities
- Offered at UCF's main campus and UCF's Rosen College of Hospitality Management campus
- Exponential industry growth locally, regionally, nationally and globally
- Cutting edge curriculum with a strong STEM foundation
- Research opportunities in both colleges
- Skills found highly desirable by industry leaders ranging from the local to the international level

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

A Bachelor's degree in a STEM-related discipline from an accredited institution.

Depending on the degree completed, one or more prerequisite courses may be required, namely: STA 2023 (Statistical methods) and STA 3032 (Probability and Statistics for Engineers) or CAP 4630 (Artificial Intelligence).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A goal statement. This is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally in the future.
- Updated résumé.
- Three letters of recommendation.
- The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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2021-2022 Graduate Catalog
Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete all of the following
  - Complete the following:
    - HMG6449 - Smart Travel and Tourism (3)
    - HMG6710 - International Tourism Management (3)
    - ESI6261 - Service System Quality Engineering (3)
    - TTE6667 - Discrete Choice Modeling in Transportation (3)
    - TTE6608 - Algorithms and Models for Smart Cities (3)
    - TTE6910 - Travel Technology and Analytics Capstone Course (3)
- Co-requisite Courses - HMG 6710 and HMG 6449

Electives
12 Total Credits

- Complete all of the following
  - Tourism and Hospitality Courses
    - Complete at least 2 of the following:
      - HMG6291 - Hospitality Entrepreneurship: Concept Creation to Capitalization (3)
      - HMG6446 - Hospitality/Tourism Information Technology (3)
      - HMG6466 - Applied Revenue Management Techniques in Hospitality (3)
      - HMG6556 - Digital Marketing and Big Data Management for Hospitality and Tourism (3)
      - HMG6565 - Social Media in Hospitality and Tourism (3)
      - HMG6566 - Principles of Destination Marketing and Management (3)
      - HMG6585 - Data Analysis in Hospitality and Tourism Research (3)
      - HMG6738 - Tourism Industry Analysis (3)
      - HMG6251 - The Management of Lodging Operations (3)
      - HMG6347 - Contemporary Issues in the Resort Industry (3)

- Technology Courses
  - Complete at least 2 of the following:
    - CAP5610 - Machine Learning (3)
    - CNT5008 - Computer Communication Networks Architecture (3)
    - COP5711 - Parallel and Distributed Database Systems (3)
    - COP6526 - Parallel and Cloud Computation (3)
    - CGN6655 - Regional Planning, Design, and Development (3)
    - EINS1117 - Management Information Systems I (3)
    - ESI6224 - Quality Management (3)
    - ESI6225 - Quality Design and Control (3)

Optional Elective Courses
0 Total Credits

- STA 5703 - Data Mining Methodology I 3 Credit Hours
- STA 6704 - Data Mining Methodology II 3 Credit Hours
- STA 5206 - Statistical Analysis 3 Credit Hours
- STA 6714 - Data Preparation 3 Credit Hours

Grand Total Credits: 30
Program Details

The program will be 30 credits (18 core/required and 12 electives). There will be no thesis requirement, however, a semester-long applied capstone project (involving industry and approved by the program director) will be required. The program will provide employable technical skills including the development of algorithms, discrete choice models, service systems quality engineering, machine learning, digital marketing, and big data management, and computer systems to extract insight from big data. The foregoing will be appropriately contextualized within the global travel industry and its trajectory toward increasing technological innovations that continue to drive the industry. The curriculum includes six (6) required courses that ensure that students have skills in algorithms and statistical techniques for extracting information in addition to awareness of the global travel and tourism industry including. Although courses can generally be taken in any order, the first two (2) required (co-requisite) courses serve as pre-requisites for all remaining courses in the program.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded to highly qualified students based on academic merit. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what students should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

College of Graduate Studies

Geographic Information Systems Graduate Certificate

College

College of Graduate Studies

Department

College of Graduate Studies Dean's Office

Program Website

https://graduate.ucf.edu/GIS

Program Contact Information

John Walker, PhD
Associate Professor
john.walker@ucf.edu

Is this program available 100% online?

No

Program Description

The Geographic Information Systems (GIS) Graduate Certificate provides students with the interdisciplinary background in geography and the technical skills in the application of GIS. The certificate will enhance the student’s ability to understand, visual and analyze geospatial data to address questions related to place and spatial interactions.

GIS and geospatial analyses allow students and researchers to see old problems in new ways making connections by overlaying digital maps and examining spatial networks and processes.
Application Requirements

Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must submit an essay that describes their background and interests in relation to their desire to obtain the GIS certificate.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, the applicant’s potential for completing the certificate and openings in the program.

Graduate Application Deadlines

<table>
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<tr>
<th>Geographic Information Systems Graduate Certificate</th>
<th>Fall Priority</th>
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<th>Summer</th>
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Graduate School Contact

**Anthony Tufano**
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

**Mailing Address**
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 - 14 Total Credits

- Complete all of the following
  - Group A - First Core Course
    - Complete at least 1 of the following:
      - ANG5852 - GIS Methods in Anthropology (3)
      - ANG6181C - GIS Applications in Anthropology (3)
      - CCJ6079 - Crime Mapping and Analysis in Criminal Justice (3)
      - PAD6716 - Information Systems for Public Managers and Planners (3)
      - POS6743 - Geographic Tools for Political Science Research (3)
      - SYA6356 - Geographic Information Systems in Society (3)
  
  - Group B - Second Core Course
    - Complete at least 1 of the following:
      - ANG5853 - Advanced GIS Methods in Anthropology (3)
      - CCJ6077 - Advanced Crime Mapping and Analysis in Criminal Justice (3)
      - SYA6452 - GIS Applications (3)
  
  - Group C - Electives
    - Complete all of the following
      - Complete at least 2 of the following:
        - BSC5824 - Biogeography (4)
        - CAP6121 - 3D User Interfaces for Games and Virtual Reality (3)
        - CCJ6073 - Data Management Systems for Crime Analysis (3)
        - CCJ7725 - The Geography of Crime: Theory and Methods (3)
        - CWR5634 - Water Resources in a Changing Environment (3)
        - CWR6126 - Groundwater Modeling (3)
        - CWR6535 - Modeling Water Resources Systems (3)
        - EEL5432 - Satellite Remote Sensing (3)
        - EEL5820 - Image Processing (3)
        - ENG6808 - Narrative Information Visualization (3)
        - ENV6047 - Environmental Informatics and Remote Sensing (3)
        - HIS5925 - History in the Digital Age (3)
        - HIS6165 - Digital Tools for Historians (3)
        - HIS6167 - Spatial History (3)
        - HUM5396 - Place and Space (3)
        - TTE6938 - Special Topics (3)
        - SYA6458 - Advanced Topics in Geographic Information Systems in Society (3)
        - PCB6328C - Landscape Ecology (4)

- It is recommended that students take Group C courses after taking Group A and B courses. Other courses related to Geospatial Science can be used to satisfy the Group C requirement, if the specific course is approved by the Graduate Certificate faculty.

Grand Total Credits: **12 - 14**
Interdisciplinary Studies MA

College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Program Website
https://www.graduate.ucf.edu/IDS/

Program Handbook
Interdisciplinary Studies MA

Program Contact Information
Elizabeth Smock EdD
gradids@ucf.edu
Telephone: 407-823-2853
MH 230

Is this program available 100% online?
No

Program Description
The Master of Arts in Interdisciplinary Studies is a unique program designed for students who want to develop their own precision degree program by combining areas of study traditionally associated with a Master of Arts (Humanities, Social Sciences, Communication, etc.). Students have the flexibility to create an individually tailored plan by choosing two concentrations that culminate in either a thesis or nonthesis experience based on their future aspirations.

The Nonthesis Track culminates in a capstone experience that prepares students for applied, non-research oriented careers.

The Thesis Track culminates in a scholarly publication that includes original research undertaken during your time as a graduate student. This provides excellent preparation for the future pursuit of a doctoral degree or research-oriented career.

Please scroll to the bottom of this page for further details on these Tracks.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Graduate School Contact
Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
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ETS PPI: 5233
College

College of Graduate Studies

Department

College of Graduate Studies Dean's Office

Track Website

https://www.graduate.ucf.edu/IDS/

Track Handbook

Interdisciplinary Studies MA, Nonthesis Track

Track Contact Information

Elizabeth Smock EdD
gradids@ucf.edu
Telephone: 407-823-2853
MH 230

Is this track available 100% online?

No

Track Description

The Nonthesis Track in the Master of Arts in Interdisciplinary Studies program allows students the flexibility to develop an individually tailored plan of study using courses traditionally associated with MA degrees. This track can combine a variety of concentrations and culminates in a capstone experience. The precision program is designed to help students prepare for applied, non-research oriented careers.

This is an excellent program for a number of endeavors appropriate for the twenty-first century. By combining the knowledge from two disciplines, supported by cross-disciplinary electives, students are able to precisely define their own area of expertise. This unique option is ideal for students who have varied interests that can be connected by a common theme or goal.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Personal statement addressing the following three items: (a.) Description of the two intended concentrations, (b.) What problems or issues are addressed by combining these concentrations, and (c.) What contribution(s) can the interdisciplinary combination make to society, a field of study, etc.
- Résumé.
- Three letters of recommendation (prefer academic references).
- Proposed program of study identifying the two concentrations and potential courses the student would take if admitted.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants should note the minimal requirements for admission to the program, although meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

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gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
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ETS PPI: 5233
Degree Requirements

Required Courses
9 Total Credits
- Complete all of the following
  - Complete the following:
    - IDS6308 - Ways of Knowing (3)
  - Earn at least 3 credits from the following types of courses:
    - A critical thinking and writing course in one of the chosen concentrations or in an area that supports the plan of study.
  - Earn at least 3 credits from the following types of courses:
    - A research methods course in one of the chosen concentrations or in an area that supports the plan of study.

Elective Courses
24 Total Credits
- Complete all of the following
  - Students take a minimum of 24 credit hours of electives, including two concentrations of 9 credit hours each of restricted electives and 6 credit hours of unrestricted electives. The unrestricted electives can be from either concentration or additional areas that support the capstone project or intended use of the degree. Students who choose one of the pre-approved concentrations such as Diversity and Inclusion or Project Management can choose courses from those course listings on our website. Those students do not need to list 2 concentrations. Course and concentration selections are done in consultation with and with approval from the program director or academic coordinator.
  - Restricted Elective Courses
    - Complete all of the following
      - Earn at least 9 credits from the following types of courses:
        - Three courses in the first concentration.
      - Earn at least 9 credits from the following types of courses:
        - Three courses in the second concentration.
  - Unrestricted Elective Courses
    - Earn at least 6 credits from the following types of courses:
      - Two additional elective courses.

Capstone
0 Total Credits
- Students choose to complete a project, an internship, or a written comprehensive examination as their capstone experience. The capstone project should reflect a combination of the two concentrations in the degree by finding an applied policy area, special topic, or issue that crosses both areas. Some examples of project types include: writing a grant proposal for an agency, program evaluation and recommendations, or a "best practices" literature review in a particular area. Students must choose three advisers for the project, one from each concentration area and one from any supporting discipline. The project will be evaluated on a pass/fail basis. Students who feel an internship will best support their plan of study and professional goals will enroll in IDS 5949 Co-op Interdisciplinary Study (0 credits) and IDS 6949 Co-op Interdisciplinary Study (3 credits) after locating an acceptable internship host site, with the approval of the program coordinator. The written examination will entail the selection of an exam committee of three faculty who will formulate questions to address both concentration areas. The student will have 48 hours to complete the take-home exam and it should be completed in their final semester of enrollment. The exam will be graded on a pass/fail basis. If the student does not pass both questions with a 70% or higher, the student will have two additional chances to retake the exam with new questions. The exam can be taken only once per semester.
- Independent Learning
  0 Total Credits
    - The program is designed to provide numerous independent learning opportunities. The required methods course will introduce students to research methodology that they will apply to independent research/capstone work. IDS 6308 acquaints students with interdisciplinarity through the use of student-driven analyses, discussions, and presentations. The required critical thinking and writing course involves students in verbal and written discussions, analyses, and critiques of work they create and from the published literature. Additionally, the completion of the capstone experience will require independent learning that will be evaluated by faculty in the specified disciplines.

Grand Total Credits: \(33\)

Track Details

The Master of Arts in Interdisciplinary Studies program is designed for students interested in an interdisciplinary precision experience who develop concentrations for their plan of study through courses traditionally associated with MA degrees.

Coursework must be selected so that at least 50 percent of credit hours in the program is taken at the 6000 level. Students must earn course grades of "B" or higher to gain credit toward their master's degree.

2021-2022 Graduate Catalog
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Interdisciplinary Studies MA - Interdisciplinary Studies MA, Thesis Track

College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Track Website
https://www.graduate.ucf.edu/IDS/

Track Handbook
Interdisciplinary Studies MA, Thesis Track

Track Contact Information
Elizabeth Smock EdD
gradids@ucf.edu
Telephone: 407-823-2853
MH 230

Is this track available 100% online?
No

Track Description
The Thesis Track in the Master of Arts in Interdisciplinary Studies program allows students the flexibility to develop an individually tailored plan of study using courses traditionally associated with MA degrees. This precision track can combine a variety of concentrations and culminates in a research thesis, which provides excellent preparation for a future doctoral degree or a research-oriented career.

The Master of Arts in Interdisciplinary Studies is an excellent program for a number of endeavors in the twenty-first century. By combining the knowledge from two disciplines, supported by cross-disciplinary electives, students are able to precisely define their own area of expertise. This unique option is ideal for students who have varied interests that can be connected by a common theme or goal.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Personal statement addressing the following three items: (a.) Description of the two intended concentrations, (b.) What problems or issues are addressed by combining these concentrations, and (c.) What contribution(s) can the interdisciplinary combination make to society, a field of study, etc.
- Résumé.
- Three letters of recommendation (prefer academic references).
- Proposed program of study identifying the two concentrations and potential courses the student would take if admitted.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants should note the minimal requirements for admission to the program, although meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant’s abilities, past performance, recommendations, match of this program and faculty expertise to the applicant’s career/academic goals, and the applicant’s potential for completing the degree.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
6 Total Credits
- Complete all of the following
  - Complete the following:
    - IDS6308 - Ways of Knowing (3)
  - Earn at least 3 credits from the following types of courses:
    - A research methods course in one of the chosen concentrations

Elective Courses
21 Total Credits
- Complete all of the following
  - Course and concentration selections are done in consultation with and with approval of the program director or academic coordinator, as well as with the student's faculty adviser and thesis committee.
  - Restricted Elective Courses
    - Complete all of the following
      - Earn at least 9 credits from the following types of courses:
        - Electives in the first concentration.
      - Earn at least 9 credits from the following types of courses:
        - Electives in the second concentration.
    - Unrestricted Elective Course
      - Earn at least 3 credits from the following types of courses:
        - Unrestricted elective.

Thesis
6 Total Credits
- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS6971 - Thesis Research (3)
  - Students should select a faculty adviser and form a thesis committee of two additional members no later than their third semester in the program. Before officially beginning work on the thesis, the student must submit a thesis proposal to the committee for approval. This proposal must cover the thesis topic and plan of approach. By the end of their degree, students will complete 6 credit hours of thesis and successfully defend their thesis. The thesis consists of a common theme with an introduction and literature review, details of the study, and results and conclusions. The thesis must be prepared and submitted in writing as well as presented and defended orally.

Independent Learning
0 Total Credits
- The thesis serves as the independent learning experience. In addition, the required methods course introduces students to research methodology that they will apply to their independent research work, and IDS 6308 acquaints them with interdisciplinarity through the use of student-driven analyses, discussions, and presentations.

Grand Total Credits: 33

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
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Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

2021-2022 Graduate Catalog
Interdisciplinary Studies MS

College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Program Website
https://www.graduate.ucf.edu/IDS/

Program Handbook
Interdisciplinary Studies MS

Program Contact Information
Elizabeth Smock EdD
gradids@ucf.edu
Telephone: 407-823-2853
MH 230

Is this program available 100% online?
No

Program Description
The Master of Science in Interdisciplinary Studies is a unique program designed for students who want to develop their own precision degree program by combining areas of study traditionally associated with a Master of Science (Engineering, Life and Physical Sciences, etc.). Students have the flexibility to create an individually tailored plan by choosing two concentrations that culminate in either a thesis or nonthesis experience based on their future aspirations.

The Nonthesis Track culminates in a capstone experience that prepares students for applied, non-research oriented careers.

The Thesis Track culminates in a scholarly publication that includes original research undertaken during your time as a graduate student. This provides excellent preparation for the future pursuit of a doctoral degree or research-oriented career.

Please scroll to the bottom of this page for further details on these Tracks.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

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Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Interdisciplinary Studies MS - Interdisciplinary Studies MS, Nonthesis Track
College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Track Website
https://www.graduate.ucf.edu/IDS/

Track Handbook
Interdisciplinary Studies MS, Nonthesis Track

Track Contact Information
Elizabeth Smock EdD
gradids@ucf.edu
Telephone: 407-823-2853
MH 230

Is this track available 100% online?
No

Track Description
The Nonthesis Track in the Master of Science in Interdisciplinary Studies program allows students the flexibility to develop an individually tailored plan of study using courses traditionally associated with MS degrees. This track can combine a variety of concentrations and culminates in a capstone experience. The precision program is designed to help students prepare for applied, non-research oriented careers.

The Master of Science in Interdisciplinary Studies is an excellent program for a number of endeavors appropriate for the twenty-first century. By combining the knowledge from two disciplines, supported by cross-disciplinary electives, students are able to precisely define their own area of expertise. This unique option is ideal for students who have varied interests that can be connected by a common theme or goal.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Personal statement addressing the following three items: (a.) Description of the two intended concentrations, (b.) What problems or issues are addressed by combining these concentrations, and (c.) What contribution(s) can the interdisciplinary combination make to society, a field of study, etc.
- Résumé.
- Three letters of recommendation (prefer academic references).
- Proposed program of study identifying the two concentrations and potential courses the student would take if admitted.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants should note the minimal requirements for admission to the program, although meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Application Deadlines Notes
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
**Graduate School Contact**

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gradadmissions@ucf.edu  
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Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Required Courses
9 Total Credits

- Complete all of the following
  - Complete the following:
    - IDS6308 - Ways of Knowing (3)
    - IDS6351 - Critical Thinking and Writing (3)
  - Earn at least 3 credits from the following types of courses:
    A research methods course in one of the chosen concentrations

Elective Courses
24 Total Credits

- Complete all of the following
  - Students take a minimum of 24 credit hours of electives, including two concentrations of 9 credit hours each of restricted electives and 6 credit hours of unrestricted electives. The additional electives can be from either concentration or additional areas that support the capstone project or intended use of the degree. Students who choose one of the pre-approved concentrations such as Diversity and Inclusion or Project Management can choose courses from those course listings on our website. Those students do not need to list 2 concentrations. Course and concentration selections are done in consultation with and with approval from the program director or academic coordinator.
  - Restricted Elective Courses
    - Complete all of the following
      - Earn at least 9 credits from the following types of courses:
        - Three courses in the first concentration.
      - Earn at least 9 credits from the following types of courses:
        - Three courses in the second concentration.
  - Unrestricted Electives
    - Earn at least 6 credits from the following types of courses:
      - Two additional elective courses

Capstone
0 Total Credits

- Students choose to complete a project, an internship, or a written comprehensive examination as their capstone experience. The capstone project should reflect a combination of the two concentrations in the degree by finding an applied policy area, special topic, or issue that crosses both areas. Some examples of project types include: writing a grant proposal for an agency, program evaluation, and recommendations, or a "best practices" literature review in a particular area. Students must choose three advisers for the project—one from each concentration area and one from a complementary discipline. The project will be evaluated on a pass/fail basis. The written examination will entail the selection of an exam committee of three faculty that will formulate questions to address both concentration areas. The student will have 48 hours to complete the take-home exam and it should be completed in their final semester of enrollment. The exam will be graded on a pass/fail basis. If the student does not pass both questions with a 70% or higher, the student will have two additional chances to retake the exam with new questions. The exam can be taken only once per semester.

Independent Learning
0 Total Credits

- The program is designed to provide numerous independent learning opportunities. The required methods course introduces students to research methodology that they will apply to independent research/capstone work. IDS 6308 acquaints students with interdisciplinarity through the use of student-driven analyses, discussions, and presentations. IDS 6351 engages students in verbal and written discussions, analyses and critiques of work they create and from the published literature. Additionally, the completion of the capstone experience will require independent learning that will be evaluated by the faculty in the specified disciplines.

Grand Total Credits: 33

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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2021-2022 Graduate Catalog
Fellowship Information

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Interdisciplinary Studies MS - Interdisciplinary Studies MS, Thesis Track

College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Track Website
https://www.graduate.ucf.edu/IDS/

Track Handbook
Interdisciplinary Studies MS, Thesis Track

Track Contact Information
Elizabeth Smock EdD
gradids@ucf.edu
Telephone: 407-823-2853
MH 230

Is this track available 100% online?
No

Track Description
The Thesis Track in the Master of Science in Interdisciplinary Studies program allows students the flexibility to develop an individually tailored plan of study using courses traditionally associated with MS degrees. This precision track can combine a variety of concentrations and culminates in a research thesis, which provides excellent preparation for a future doctoral degree or a research-oriented career.

The Master of Science in Interdisciplinary Studies is an excellent program for a number of endeavors in the twenty-first century. By combining the knowledge from two disciplines, supported by cross-disciplinary electives, students are able to precisely define their own area of expertise. This unique option is ideal for students who have varied interests that can be connected by a common theme or goal.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Personal statement addressing the following three items: (a.) Description of the two intended concentrations, (b.) What problems or issues are addressed by combining these concentrations, and (c.) What contribution(s) can the interdisciplinary combination make to society, a field of study, etc.
- Résumé.
- Three letters of recommendation (prefer academic references).
- Proposed program of study identifying the two concentrations and potential courses the student would take if admitted.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants should note the minimal requirements for admission to the program, although meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant’s career/academic goals, and the applicant's potential for completing the degree.
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
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TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
6 Total Credits

- Complete all of the following
  - Complete the following:
    - IDS6308 - Ways of Knowing (3)
  - Earn at least 3 credits from the following types of courses:
    - A research methods course in one of the chosen concentrations

Elective Courses
21 Total Credits

- Complete all of the following
  - Restricted Elective Courses
    - Complete all of the following
      - Students take a minimum of 18 credit hours in restricted electives, including two concentrations of 9 credit hours of courses each. Course and concentration selections are done in consultation with and with approval of the program director or academic coordinator, as well as with the student's faculty adviser and thesis committee.
      - Earn at least 9 credits from the following types of courses:
        - Three courses in the first concentration.
      - Earn at least 9 credits from the following types of courses:
        - Three courses in the second concentration.
  - Unrestricted Elective Course
    - Earn at least 3 credits from the following types of courses:
      - Unrestricted elective

Thesis
6 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS6971 - Thesis Research (3)
  - Students should select a faculty adviser and form a thesis committee of two additional members by their third semester in the program. Before officially beginning work on the thesis, the student must submit a thesis proposal to the committee for approval. This proposal must cover the thesis topic and plan of approach. By the end of their degree, students will complete 6 credit hours of thesis and successfully defend their thesis. The thesis consists of a common theme with an introduction and literature review, details of the study, and results and conclusions. The thesis must be prepared and submitted in writing as well as presented and defended orally.

Independent Learning
0 Total Credits

- The thesis serves as the independent learning experience. In addition, the required methods course introduces students to research methodology that they will apply to independent research work, and IDS 6308 acquaints students with interdisciplinarity through the use of student-driven analyses, discussions and presentations.

Grand Total Credits: 33

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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**Grad Fellowships**
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**Modeling and Simulation MS**

**College**

College of Graduate Studies

**Department**

College of Graduate Studies Dean’s Office

**Program Website**

https://msgrad.ist.ucf.edu

**Program Handbook**

Modeling and Simulation MS

**Program Contact Information**

**Charlie Hughes, PhD**
Interim Program Director
Charles.Hughes@ucf.edu
Telephone: 407-882-0313
Pill building, room 109

**Kirsten Seitz**
kirsten.seitz@ucf.edu
Telephone: 407-882-1407
Partnership 2 Building, Room 131D

Is this program available 100% online?

No
Program Description

The UCF School of Modeling, Simulation, and Training (SMST) considers its degree programs as transdisciplinary, intended for those who wish to pursue a career in the fields of academia, government, military/defense, healthcare/medicine, entertainment, technology, education, or service/manufacturing. Most engineering or scientific fields use simulation as an exploration, modeling, or analysis technique. However, Modeling and Simulation is not limited to engineering and science, as it is also used in training, management, and concept exploration. These programs involve constructing human-centered, equipment-centered, and stand-alone computer-based models of existing and conceptual systems and processes.

UCF SMST sought feedback from industry practitioners to identify key competencies for students in our degree programs. This input has been critical to the development of our curriculum, which is designed to provide a broad overall perspective of the developing simulation industry and an awareness of the economic considerations. UCF SMST's objective is to provide education on evaluating the human, organization, equipment, and systems under study through the evaluation of output from the corresponding simulation construct. Alumni of SMST degree programs have both general and specialized skills in Modeling and Simulation.

Though not required, many students in the Modeling and Simulation M.S. program choose to focus their study and research efforts in an area of specialization. Students can base their specialization on their academic and professional goals, and seek feedback from their faculty adviser and the Modeling and Simulation graduate program director. Common areas of specialization are listed below (descriptions can be found at msgrad.ist.ucf.edu). This is not an exhaustive list, as the field continues to grow and evolve.

- Behavioral Cybersecurity
- Computer Visualization
- Human Systems
- Instructional and Training Simulation
- Interactive Simulation and Intelligent Systems
- Simulation in Government and Military
- Simulation in Healthcare and Medicine
- Simulation Infrastructure
- Simulation Management
- Simulation Modeling and Analysis

Program Prerequisites

Though UCF SMST does not have a mandated prerequisite for its graduate programs, the most successful students are those who have an academic and/or work background that has prepared them in mathematics (introductory calculus and probability and statistics) and computer literacy, preferably familiarity with at least one higher order programming language (e.g., Python, C/C++/C#, Visual Basic, Java, etc.). Students with undergraduate or graduate degrees in Engineering, Computer Science, or Mathematics will generally have this background.

Students without this background are encouraged to select the elective course IDC 5570 (Introductory Mathematics for Modeling and Simulation). This course will prepare them for the required core course COT 6571 (Mathematical Foundations of Modeling and Simulation).
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Students who enter the Master of Science in Modeling and Simulation program are expected to have an academic and/or work background that has prepared them in mathematics (introductory calculus and probability and statistics) and computer "literacy," including proficiency with word processing, spreadsheet, and database programs, and, preferably, familiarity with at least one higher order programming language (e.g., C++). Students with undergraduate degrees in Engineering, Computer Science, or Mathematics will generally have this background.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Résumé or Curriculum Vitae
- Goal statement
  - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience.
  - The statement should:
    - Explain the motivation behind the pursuit of a graduate degree in Modeling and Simulation.
    - Discuss future career goals after the completion of the applicant’s master study.
    - Clearly describe the particular area(s) of research/professional interest, including the identification of at least one UCF faculty member with a similar research focus who could serve as a potential advisor.
  - The goal statement should between 500 and 1,000 words.
- Two letters of recommendation
  - The letters of recommendation should:
    - Be from faculty members, university administrators and employers (at least one letter should be furnished by college/university faculty who are acquainted with the applicant).
    - Be current to the application.
    - Address the educational and career goals of the applicant.
    - Clearly address the applicant's ability to perform graduate-level study and research.
  - The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program.
  - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applications are accepted for the fall and spring terms only.

**Readmission**

The UCF SMST Graduate Programs will consider applications for readmission from students who have been dismissed and/or deactivated from its degree programs. Those interested in readmission MUST consult the Modeling and Simulation Graduate Program Director prior to their application to determine their eligibility to reapply and the requirements for their application.

**Prerequisites**

Though UCF SMST does not have a mandated prerequisite for its graduate programs, the most successful students are those who have an academic and/or work background that has prepared them in mathematics (introductory calculus and probability and statistics) and computer literacy, preferably familiarity with at least one higher order programming language (e.g., Python, C/C++/C#, Visual Basic, Java, etc.). Students with undergraduate or graduate degrees in Engineering, Computer Science, or Mathematics will generally have this background.

Students without this background are encouraged to select the elective course IDC 5570 (Introductory Mathematics for Modeling and Simulation). This course will prepare them for the required core course COT 6571 (Mathematical Foundations of Modeling and Simulation).

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
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Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses

15 Total Credits

- Complete all of the following
  - Complete the following:
    - COT6571 - Mathematical Foundations of Modeling and Simulation (3)
    - IDS6147 - Perspectives on Modeling and Simulation (3)
    - IDS6145 - Simulation Techniques (3)
    - IDS6267 - Understanding Humans for Modeling and Simulation (3)

Thesis/Non Thesis Option

- Complete 1 of the following
  - Thesis Option
    - Complete the following:
      - IDS6262 - Research Design for Modeling and Simulation (3)
  - Non Thesis Option
    - Complete the following:
      - IDS6916 - Simulation Research Methods and Practicum (3)

Unrestricted Electives

15 Total Credits

- Earn at least 15 credits from the following types of courses:
  All Modeling and Simulation MS students must take at least 9 credit hours of unrestricted electives that support the student's area of graduate study. Unrestricted electives must consist of at least 9 credit hours of formal courses, which may include independent study (up to 6 credit hours). The remaining credit may consist of additional thesis (for thesis option students only), directed research, and additional courses as advised appropriately by the faculty adviser and/or program director.

Thesis/Nonthesis Option

6 Total Credits

- Complete 1 of the following

  Thesis Option
  - Earn at least 6 credits from the following:
    - IDS6971 - Thesis Research (3)

  Non Thesis Option
  - Complete all of the following
    - Restricted Elective
      - Complete at least 1 of the following:
        - IDC5602 - Cybersecurity: A Multidisciplinary Approach (3)
        - IDC6601 - Behavioral Aspects of Cybersecurity (3)
        - IDC6700 - Interdisciplinary Approach to Data Visualization (3)
        - IDS5142 - Modeling and Simulation for Instructional Design (3)
        - IDS6146 - Modeling and Simulation Systems (3)
        - IDS6149 - Modeling and Simulation for Test and Evaluation (3)
        - IDS6916 - Simulation Research Methods and Practicum (3)

  Unrestricted Electives
  - Earn at least 3 credits from the following types of courses:
    Nonthesis students are required to take an additional 3 credit hours of unrestricted electives that support the student's area of graduate study.
Complete all of the following:

- In addition to successfully enrolling and completing the core courses, students are required to carefully select electives with the guidance of a faculty adviser. Elective choices should be made with the intent to strengthen a research interest and/or area of focus in order to meet the individual student's educational goals and objectives. Listed below are suggested courses in various areas of focus or specialization. These course groupings are merely guides, and are not exhaustive and are only meant to assist with advising and course selection in order to meet the individual student's educational goals and objectives. They are not intended to restrict elective choices among focus areas as we strongly encourage Modeling and Simulation students to maintain an interdisciplinary approach to their graduate studies. If a student identifies another UCF course which may be of value to his/her modeling and simulation research area, but is not already identified in a list below, he/she may request approval from the Graduate Program Director for the course to be used as an elective in the Graduate Plan of Study. All such requests must be made in advance of enrolling in the course. Those electives categorized as “General” would be appropriate for all students regardless of focus area. The remaining categories are grouped by area of research interest.

**General**

- ESI 6247 - Experimental Design and Taguchi Methods 3 Credit Hours ESI 6891 - IEMS Research Methods 3 Credit Hours
- IDS 5907 Independent Study (variable) IDS 5917 Directed Research (variable) IDS 6908 Independent Study (variable)
- IDS 6918 Directed Research (variable) IDS 6918 Directed Research (variable) IDS 6946 Internship (variable) IDS 7919
- Doctoral Research (variable) PHI 5340 - Research Methods in the Cognitive Sciences 3 Credit Hours PSY 6216C -
- Research Methodology 4 Credit Hours STA 5205 - Experimental Design 3 Credit Hours
- Fundamentals of Modeling and Simulation

**EIN 6258 - Human Computer Interaction** 3 Credit Hours ESI 5219 - Engineering Statistics 3 Credit Hours ESI 5531 -
Discrete Systems Simulation 3 Credit Hours ESI 6217 - Statistical Aspects of Digital Simulation 3 Credit Hours ESI 6247 -
Experimental Design and Taguchi Methods 3 Credit Hours ESI 6532 - Object-Oriented Simulation 3 Credit Hours
IDC 6700 - Interdisciplinary Approach to Data Visualization 3 Credit Hours IDS 6145 - Simulation Techniques 3 Credit Hours
IDS 6146 - Modeling and Simulation Systems 3 Credit Hours IDS 6147 - Perspectives on Modeling and Simulation 3
Credit Hours IDS 6149 - Modeling and Simulation for Test and Evaluation 3 Credit Hours IDS 6950 - Modeling and
Simulation Capstone Report Planning 1 Credit Hours

**Behavioral Cybersecurity**

**CAP 6133** - Advanced Topics in Computer Security and Computer Forensics 3 Credit Hours CAP 6135 - Malware and
Software Vulnerability Analysis 3 Credit Hours CDA 6530 - Performance Models of Computers and Networks
3 Credit Hours CJE 6688 - Cyber Crime and Criminal Justice 3 Credit Hours CNT 5008 - Computer Communication Networks
Architecture 3 Credit Hours CNT 5410L - Cyber Operations Lab 3 Credit Hours CNT 6519 - Wireless Security and
Forensics 3 Credit Hours COT 5405 - Design and Analysis of Algorithms 3 Credit Hours EEL 6785 - Computer Network
Design 3 Credit Hours EEL 6883 - Software Engineering II 3 Credit Hours ESI 5531 - Discrete Systems Simulation 3
Credit Hours EXP 5256 - Human Factors I 3 Credit Hours EXP 6506 - Human Cognition and Learning 3 Credit Hours
IDC 5602 - Cybersecurity: A Multidisciplinary Approach 3 Credit Hours IDC 6600 - Emerging Cyber Issues 3 Credit Hours
IDC 6601 - Behavioral Aspects of Cybersecurity 3 Credit Hours IDS 6916 - Simulation Research Methods and Practicum 3
Credit Hours INR 6365 - Seminar on Intelligence 3 Credit Hours INR 6366 - The Intelligence Community 3 Credit Hours
PHI 6938 - ST: Digital Ethics 3 Credit Hours STA 5873 - Data Mining Methodology 1 Credit Hours STA 5825 - Stochastic
Processes and Applied Probability Theory 3 Credit Hours

**Human Systems**

**CAP 6515** - Algorithms in Computational Biology 3 Credit Hours CAP 6671 - Intelligent Systems: Robots, Agents, and
Humans 3 Credit Hours CAP 6676 - Knowledge Representation 3 Credit Hours DIG 6432 - Transmedia Story Creation 3
Credit Hours DIG 6812 - Digital Interaction for Informal Learning 3 Credit Hours EIN 5248 - Ergonomics 3 Credit Hours
EIN 5317 - Training System Design 3 Credit Hours EIN 6215 - System Safety Engineering and Management 3 Credit
Hours EIN 6250 - Human Computer Interaction 3 Credit Hours EIN 6649C - Intelligent Tutoring Training System Design
3 Credit Hours EME 6458 - Virtual Teaching and the Digital Educator 3 Credit Hours EME 6507 - Multimedia for
Education and Training 3 Credit Hours EME 6601 - Instructional Simulation Design for Training and Education 3 Credit
Hours EME 6614 - Instructional Game Design for Training and Education 3 Credit Hours EXP 5208 - Sensation and Perception 3 Credit Hours EXP 5256 -
Human Factors I 3 Credit Hours EXP 6255 - Human Performance 3 Credit Hours EXP 6257 - Human Factors II 3 Credit
Hours EXP 6258 - Human Factors III 3 Credit Hours EXP 6506 - Human Cognition and Learning 3 Credit Hours EXP 6541 -
Advanced Human Computer Interaction 3 Credit Hours IDS 6148 - Human Systems Integration for Modeling and
Simulation 3 Credit Hours IDS 6149 - Modeling and Simulation for Test and Evaluation 3 Credit Hours PHI 5225 -
Philosophy of Language 3 Credit Hours PHI 5325 - Topics in Philosophy of Mind 3 Credit Hours PHI 5327 - Topics in
the Cognitive Sciences 3 Credit Hours PHI 5329 - Philosophy of Neuroscience 3 Credit Hours PSB 5005 - Physiological
Psychology 3 Credit Hours TTE 6270 - Intelligent Transportation Systems 3 Credit Hours

**Computer Visualization**

**CAP 5725** - Computer Graphics I 3 Credit Hours CAP 6411 - Computer Vision Systems 3 Credit Hours CAP 6412 -
Advanced Computer Vision 3 Credit Hours CAP 6676 - Knowledge Representation 3 Credit Hours CDA 5106 - Advanced
Computer Architecture 3 Credit Hours COT 5405 - Design and Analysis of Algorithms 3 Credit Hours DIG 6605 -
Physical Computing 3 Credit Hours DIG 6647 - History and Theory of Dynamic Media 3 Credit Hours EEL 5173 - Linear
Systems Theory 3 Credit Hours EEL 5771C - Engineering Applications of Computer Graphics 3 Credit Hours EEL 5820 -
Image Processing 3 Credit Hours EEL 5825 - Pattern Recognition and Learning from Big Data 3 Credit Hours EEL 5874 -
Expert Systems and Knowledge Engineering 3 Credit Hours EEL 6823 - Image Processing II 3 Credit Hours EEL 6843 -
Machine Perception 3 Credit Hours EIN 6258 - Human Computer Interaction 3 Credit Hours ESI 6247 - Experimental
Design and Taguchi Methods 3 Credit Hours IDC 6700 - Interdisciplinary Approach to Data Visualization 3 Credit Hours
MAP 6118 - Introduction to Nonlinear Dynamics 3 Credit Hours MAP 5117 - Mathematical Modeling 3 Credit Hours MAT
5712 - Scientific Computing 3 Credit Hours

**CAP 5512** - Evolutionary Computation 3 Credit Hours CAP 6515 - Algorithms in Computational Biology 3 Credit Hours
CDA 6530 - Performance Models of Computers and Networks 3 Credit Hours COT 5405 - Design and Analysis of Algorithms 3 Credit Hours EEL 5173 - Linear Systems Theory 3 Credit Hours EEL 6878 - Modeling and Artificial Intelligence 3 Credit Hours EIN 6528 - Simulation Based Life Cycle Engineering 3 Credit Hours ESI 5306 - Operations Research 3 Credit Hours ESI 5531 - Discrete Systems Simulation 3 Credit Hours ESI 6217 - Statistical Aspects of Digital Simulation 3 Credit Hours ESI 6247 - Experimental Design and Taguchi Methods 3 Credit Hours IDC 6700 - Interdisciplinary Approach to Data Visualization 3 Credit Hours IDS 6149 - Modeling and Simulation for Test and Evaluation 3 Credit Hours MAP 5117 - Mathematical Modeling 3 Credit Hours MAP 6117 - Mathematical Statistics 3 Credit Hours MAP 6118 - Introduction to Nonlinear Dynamics 3 Credit Hours MAP 6207 - Optimization Theory 3 Credit Hours MAP 6385 - Applied Numerical Mathematics 3 Credit Hours MAP 6407 - Integral Equations and the Calculus of Variations 3 Credit Hours MAP 6408 - Perturbations and Asymptotic Methods 3 Credit Hours MAP 6445 - Approximation Techniques 3 Credit Hours MAT 5712 - Scientific Computing 3 Credit Hours STA 5703 - Data Mining Methodology 3 Credit Hours STA 5825 - Stochastic Processes and Applied Probability Theory 3 Credit Hours STA 6236 - Regression Analysis 3 Credit Hours STA 6246 - Linear Models 3 Credit Hours STA 6326 - Theoretical Statistics I 3 Credit Hours STA 6327 - Theoretical Statistics II 3 Credit Hours STA 6329 - Statistical Applications of Matrix Algebra 3 Credit Hours STA 6704 - Data Mining Methodology II 3 Credit Hours STA 6714 - Data Preparation 3 Credit Hours Simulation in Healthcare
- CAP 6515 - Algorithms in Computational Biology 3 Credit Hours CAP 6671 - Intelligent Systems: Robots, Agents, and Humans 3 Credit Hours CAP 6676 - Knowledge Representation 3 Credit Hours DIG 6647 - History and Theory of Dynamic Media 3 Credit Hours DIG 6812 - Digital Interaction for Informal Learning 3 Credit Hours EEL 5820 - Image Processing 3 Credit Hours EEL 6823 - Image Processing II 3 Credit Hours EIN 6645 - Real-Time Simulation Agents 3 Credit Hours ESI 5531 - Discrete Systems Simulation 3 Credit Hours NGR 6717 - Introduction to Healthcare Simulation 3 Credit Hours NGR 6771L - Healthcare Simulation Practicum 3 Credit Hours NGR 6794 - Organizational Leadership and Operations in Healthcare Simulation 3 Credit Hours NGR 6978 - Healthcare Simulation Capstone Project 3 Credit Hours PHI 5329 - Philosophy of Neuroscience 3 Credit Hours PSB 5005 - Physiological Psychology 3 Credit Hours SPA 6417 - Cognitive/Communicative Disorders 3 Credit Hours Interactive Simulation and Intelligent Systems
- CAP 5512 - Evolutionary Computation 3 Credit Hours CAP 5610 - Machine Learning 3 Credit Hours CAP 5636 - Advanced Artificial Intelligence 3 Credit Hours CAP 6671 - Intelligent Systems: Robots, Agents, and Humans 3 Credit Hours CAP 6676 - Knowledge Representation 3 Credit Hours DIG 6812 - Digital Interaction for Informal Learning 3 Credit Hours EEL 5771C - Engineering Applications of Computer Graphics 3 Credit Hours EEL 5874 - Expert Systems and Knowledge Engineering 3 Credit Hours EEL 6878 - Modeling and Artificial Intelligence 3 Credit Hours EIN 5251 - Usability Engineering 3 Credit Hours EIN 5255C - Interactive Simulation 3 Credit Hours EIN 6258 - Human Computer Interaction 3 Credit Hours EIN 6645 - Real-Time Simulation Agents 3 Credit Hours EIN 6647 - Intelligent Simulation 3 Credit Hours EIN 6649C - Intelligent Tutoring Training System Design 3 Credit Hours EME 6613 - Instructional System Design 3 Credit Hours ESI 6247 - Experimental Design 3 Credit Hours ESI 6419 - Modeling and Simulation for Test and Evaluation 3 Credit Hours Simulation Infrastructure
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans 3 Credit Hours CAP 6676 - Knowledge Representation 3 Credit Hours CDA 5106 - Advanced Computer Architecture 3 Credit Hours CDA 6107 - Parallel Computer Architecture 3 Credit Hours CDA 6530 - Performance Models of Computers and Networks 3 Credit Hours CNT 5008 - Computer Communication Networks 3 Credit Hours MAP 5117 - Mathematical Modeling 3 Credit Hours MAP 6111 - Mathematical Statistics 3 Credit Hours DIG 6605 - Physical Computing 3 Credit Hours EEL 5713 - Linear Systems Theory 3 Credit Hours EEL 6762 - Performance Analysis of Computer and Communication Systems 3 Credit Hours EEL 6785 - Computer Network Design 3 Credit Hours EEL 6878 - Modeling and Artificial Intelligence 3 Credit Hours EEL 6883 - Software Engineering II 3 Credit Hours MAT 5712 - Scientific Computing 3 Credit Hours Simulation Management
- EIN 5108 - The Environment of Technical Organizations 3 Credit Hours EIN 5117 - Management Information Systems I 3 Credit Hours EIN 5140 - Project Engineering 3 Credit Hours EIN 5356 - Cost Engineering 3 Credit Hours EIN 6182 - Engineering Management 3 Credit Hours EIN 6215 - System Safety Engineering and Management 3 Credit Hours EIN 6339 - Operations Engineering 3 Credit Hours EIN 6357 - Advanced Engineering Economic Analysis 3 Credit Hours EIN 6528 - Simulation Based Life Cycle Engineering 3 Credit Hours ESI 5227 - Total Quality Improvement 3 Credit Hours ESI 6242 - Quality Management 3 Credit Hours ESI 6358 - Decision Analysis 3 Credit Hours ESI 6551 - Systems Engineering 3 Credit Hours IDC 6700 - Interdisciplinary Approach to Data Visualization 3 Credit Hours IDS 6149 - Modeling and Simulation for Test and Evaluation 3 Credit Hours

Plan of Study
0 Total Credits

- After admission to the Modeling and Simulation M.S. program and before the end of the second term of enrollment, students must submit a Graduate Plan of Study (GPS) to the Modeling and Simulation Graduate Program office. The GPS helps the student design an appropriate program of coursework to support the student's educational needs, goals, and objectives. The GPS should be developed in concert with the student's faculty adviser or (if adviser is not yet identified) program director and form a unified cohesive strategy for degree completion. All graduate program credit must be at the 5000-level or higher, with a minimum of 50% at the 6000- or 7000-level. Students are eligible to make changes to their Graduate Plan of Study at any time, with the approval of their faculty adviser and the Modeling and Simulation Graduate Program.

Culminating Experience
0 Total Credits

- Students are eligible to complete their specific culminating experience once they are within 6 credits of completing all coursework (i.e., completed at least 24 credits of coursework); have an approved up-to-date GPS on file with the graduate program; and have an advisory committee on file (thesis students, please refer to the information below; non-thesis students, the advisory committee is selected by the SMST Graduate Program). Detailed information and protocol regarding the culminating experiences can be found at msgrad.ist.ucf.edu.
Thesis Adviser and Advisory Committee

- Students are responsible for selecting an adviser from a list of faculty members authorized to direct theses to serve as the chair of their advisory committee. Then, in concert with their adviser, the student must identify and select the remaining members of the advisory committee. The advisory committee must contain a minimum of three members (chair plus two members). All committee members must hold a terminal degree and be in fields related to the student's thesis topic. At least two members, including the chair, must be classified as Modeling and Simulation graduate faculty. These faculty members should be from (or represent) at least two different colleges. At least one member must have served as a committee member on a prior SMST advisory committee. With approval from the Modeling and Simulation Graduate Program Director, a committee member may serve as a committee's co-chair. The UCF College of Graduate Studies, as well as UCF SMST, reserve the right to review appointments to advisory committees; place a representative on any advisory committee; or appoint a co-adviser.

Thesis Defense

- The thesis defense is a formal oral presentation of the written project before the student's advisory committee. All dissertation defenses are announced in advance and open to the public. Committee members vote either "Pass" or "Fail" of the written thesis and oral defense. The thesis and its defense must be approved by a majority vote, with no more than one dissenting vote. Normally, students are granted one opportunity to pass the thesis defense. In extenuating circumstances and at the discretion of the Modeling and Simulation Graduate Program Director, a student may be allowed one additional attempt to pass the thesis defense (no more than two attempts will be allowed). Non-thesis Experience An advisory committee comprised of 2-3 members of the UCF SMST Core Curriculum committee identifies a non-thesis capstone project. The current requirement is a professional portfolio, highlighting a student's educational and professional skills, reflecting the discipline in which the student plans to pursue their Modeling and Simulation career. The details and standards for the project will be presented in IDS6916, but the student has until their last semester to submit their final portfolio. Students who declare an intent to graduate with the non-thesis option will be enrolled in a portfolio webcourse and invited to participate in workshops to receive feedback prior to the announced deadline. Portfolios are graded "Pass" or "Fail." Normally, a student is granted one opportunity to pass the requirement. In extenuating circumstances and at the discretion of the Modeling and Simulation Graduate Program Director, a student may be allowed one additional attempt to pass the non-thesis project requirement (no more than two attempts will be allowed).

Time to Completion

- Students are granted 7 years (21 semesters) from the term of admission to complete their degree program. Failure to comply with the "7-Year Rule" may result in dismissal from the program, and may require reapplication to the program as well as repeating coursework and other program requirements.

Equipment Fee

- Full-time students in the Modeling and Simulation MS program pay a $27 equipment fee each semester that they are enrolled. Part-time students pay a $13.50 equipment fee each semester that they are enrolled.

Independent Learning

- A thesis serves as the independent learning experience for thesis students. Nonthesis students are required to take IDS 6916 where a research project is required and submit an end-of-program portfolio.

Grand Total Credits: **36**

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Modeling and Simulation of Behavioral Cybersecurity Graduate Certificate

College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Program Website
https://msgrad.ist.ucf.edu

Program Contact Information
Bruce Caulkins PhD, Colonel (Ret), US Army
bcaulkin@ist.ucf.edu
Telephone: 407-882-2427
Partnership II Building, Room 319

Is this program available 100% online?
No

Program Description
The Graduate Certificate in Modeling and Simulation of Behavioral Cybersecurity provides students with an interdisciplinary modeling and simulation approach to cybersecurity with a particular emphasis on the behavioral aspects of cybersecurity and cyber operations.

This graduate certificate is beneficial to individuals who have an interest in interdisciplinary studies and problem-solving for modeling, simulation, and behavioral aspects of cybersecurity.

UCF Partnerships
The Modeling and Simulation of Behavioral Cybersecurity certificate partners with several UCF master's programs. If students complete the certificate and are accepted into a partnering program, all certificate coursework can be used toward that master's degree. Here is a list of our partnering UCF master's programs:

- Computer Engineering MSCpE
- Industrial Engineering MS
- Modeling and Simulation MS
- Cyber Security and Privacy MS

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vitae

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Modeling and Simulation of Behavioral Cybersecurity Graduate Certificate</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tr>
<td>International Applicants</td>
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</tbody>
</table>
Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
15 Total Credits

- Complete the following:
  - IDC5602 - Cybersecurity: A Multidisciplinary Approach (3)
  - CNT5410L - Cyber Operations Lab (3)
  - IDC6600 - Emerging Cyber Issues (3)
  - IDC6601 - Behavioral Aspects of Cybersecurity (3)
  - IDC6941 - Capstone in Modeling and Simulation of Behavioral Cybersecurity (3)

Grand Total Credits: 15
Modeling and Simulation of Technical Systems Graduate Certificate

**College**
College of Graduate Studies

**Department**
College of Graduate Studies Dean’s Office

**Program Website**
https://msgrad.ist.ucf.edu

**Program Contact Information**
R. Paul Wiegand III, PhD  
Interim Program Director  
wiegand@ist.ucf.edu  
Telephone: 407-882-0313  
PII 209

Kirsten Seitz  
Kirsten.Seitz@ucf.edu  
Telephone: 407-882-1407  
Partnership 2 Building, Room 131D

**Is this program available 100% online?**
No

**Program Description**

**PROGRAM DISCONTINUED EFFECTIVE FALL 2019**

The Graduate Certificate in Modeling and Simulation of Technical Systems provides students with the necessary knowledge in modeling and simulation fundamentals, including modeling techniques and applications, with special emphasis on modeling and simulation in testing and evaluation.

This graduate certificate is beneficial to technical professionals involved with constructing and using simulation models of dynamic systems. All courses of the certificate program will be delivered electronically via distance education. Students are required to apply to the Out-of-State Cohort Track or the In-State Cohort Track.

**Application Requirements**
Applicants must choose a track in this program. Track(s) may have different requirements.

**Modeling and Simulation of Technical Systems Graduate Certificate - Modeling and Simulation of Technical Systems, In State Cohort Track Graduate Certificate**

**College**
College of Graduate Studies

**Department**
College of Graduate Studies Dean’s Office

**Track Website**
http://www.ist.ucf.edu/grad
Is this track available 100% online?
No

Track Description

PROGRAM DISCONTINUED EFFECTIVE FALL 2019

The Graduate Certificate in Modeling and Simulation of Technical Systems provides students with the necessary knowledge in modeling and simulation fundamentals, including modeling techniques and applications, with special emphasis on modeling and simulation in testing and evaluation.

This graduate certificate is beneficial to technical professionals involved with constructing and using simulation models of dynamic systems. All courses of the certificate program will be delivered electronically via distance education.

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
16 Total Credits

- Complete the following:
  - IDS6147 - Perspectives on Modeling and Simulation (3)
  - ESI5531 - Discrete Systems Simulation (3)
  - IDS6146 - Modeling and Simulation Systems (3)
  - IDS6950 - Modeling and Simulation Capstone Report Planning (1)
  - IDS6149 - Modeling and Simulation for Test and Evaluation (3)
  - IDS6916 - Simulation Research Methods and Practicum (3)

Grand Total Credits: 16

Track Details

For the Modeling and Simulation of Technical Systems Graduate Certificate, Florida residents will follow the regular in-state tuition and fees schedule for the university.
Modeling and Simulation of Technical Systems Graduate Certificate - Modeling and Simulation of Technical Systems, Out of State Cohort Track Graduate Certificate

College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Track Website
http://www.ist.ucf.edu/grad

Track Contact Information
Joseph LaViola, Jr. PhD
Assistant Professor
jjl@eecs.ucf.edu
Telephone: 407-882-2285
HEC Bldg, Room 321

Kirsten Seitz
Kirsten.Seitz@ucf.edu
Telephone: 407-882-1407
Partnership 2 Building, Room 131D

Is this track available 100% online?
No

Track Description

PROGRAM DISCONTINUED EFFECTIVE FALL 2019

The Graduate Certificate in Modeling and Simulation of Technical Systems provides students with the necessary knowledge in modeling and simulation fundamentals, including modeling techniques and applications, with special emphasis on modeling and simulation in testing and evaluation.

This graduate certificate is beneficial to technical professionals involved with constructing and using simulation models of dynamic systems. All courses of the certificate program will be delivered electronically via distance education.

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

Required Courses
16 Total Credits

- Complete the following:
  - IDS6147 - Perspectives on Modeling and Simulation (3)
  - ESI5531 - Discrete Systems Simulation (3)
  - IDS6146 - Modeling and Simulation Systems (3)
  - IDS6950 - Modeling and Simulation Capstone Report Planning (1)
  - IDS6149 - Modeling and Simulation for Test and Evaluation (3)
  - IDS6916 - Simulation Research Methods and Practicum (3)

Grand Total Credits: **16**

**Track Details**

For the Modeling and Simulation of Technical Systems Graduate Certificate, the cost per credit hour is $800.00.*

*Fee is subject to change.

**Modeling and Simulation PhD**

**College**

College of Graduate Studies

**Department**

College of Graduate Studies Dean’s Office

**Program Website**

https://msgrad.ist.ucf.edu

**Program Handbook**

Modeling and Simulation PhD

**Program Contact Information**

Charlie Hughes, PhD  
Interim Program Director  
charles.hughes@ucf.edu  
Telephone: 407-882-1344  
Partnership 3 Building, Room 109

Kirsten Seitz  
Kirsten.Seitz@ucf.edu  
Telephone: 407-882-1407  
Partnership 2 Building, Room 131D

**Is this program available 100% online?**

No
Program Description

The UCF School of Modeling, Simulation, and Training (SMST) considers its degree programs as transdisciplinary, intended for those who wish to pursue a career in the fields of academia, government, military/defense, healthcare/medicine, entertainment, technology, education, or service/manufacturing. Most engineering or scientific fields use simulation as an exploration, modeling, or analysis technique. However, Modeling and Simulation is not limited to engineering and science, as it is also used in training, management, and concept exploration. These programs involve constructing human-centered, equipment-centered, and stand-alone computer-based models of existing and conceptual systems and processes.

UCF SMST sought feedback from industry practitioners to identify key competencies for students in our degree programs. This input has been critical to the development of our curriculum, which is designed to provide a broad overall perspective of the developing simulation industry and an awareness of the economic considerations. UCF SMST’s objective is to provide education on evaluating the human, organization, equipment, and systems under study through the evaluation of output from the corresponding simulation construct. Alumni of SMST degree programs have both general and specialized skills in Modeling and Simulation.

Students in the Modeling and Simulation Ph.D. program are required to focus their study and research efforts in two areas of specialization. Students base their specialization on their academic and professional goals and determine these areas in consultation with their faculty adviser and the Modeling and Simulation graduate program director. Common areas of specialization are listed below (descriptions can be found at msgrad.ist.ucf.edu). This is not an exhaustive list, as the field continues to grow and evolve.

- Behavioral Cybersecurity
- Computer Visualization
- Human Systems
- Instructional and Training Simulation
- Interactive Simulation and Intelligent Systems
- Simulation in Government and Military
- Simulation in Healthcare and Medicine
- Simulation Infrastructure
- Simulation Management
- Simulation Modeling and Analysis

Program Prerequisites

Though UCF SMST does not have a mandated prerequisite for its graduate programs, the most successful students are those who have an academic and/or work background that has prepared them in mathematics (introductory calculus and probability and statistics) and computer literacy, preferably, familiarity with at least one higher order programming language (e.g., Python, C/C++, Visual Basic, Java, etc.). Students with undergraduate or graduate degrees in Engineering, Computer Science, or Mathematics will generally have this background.

Students without this background are encouraged to select the elective course IDC 5570 (Introductory Mathematics for Modeling and Simulation). This course will prepare them for the required core course COT 6571 (Mathematical Foundations of Modeling and Simulation).
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- An official, competitive score on the GRE taken within the last five years
- Résumé or Curriculum Vitae
- Goal statement
  - The goal statement should discuss all relevant professional background and any previous research experience.
  - The statement should:
    - Explain the motivation behind the pursuit of a Doctoral degree in Modeling and Simulation.
    - Discuss future career goals after the completion of the applicant's doctoral study.
    - Clearly describe the particular area(s) of research interest, including the identification of at least one UCF faculty member with a similar research focus who could serve as a potential advisor.
- Three letters of recommendation
  - The letters of recommendation should:
    - Be from faculty members, university administrators, and employers (at least two letters should be furnished by college/university faculty who are acquainted with the applicant).
    - Be current to the application.
    - Address the educational and career goals of the applicant.
    - Clearly address the applicant's ability to perform graduate-level study and research.
  - The letter writers should also know the applicant well enough to discuss the applicant's capacity to perform, excel and succeed in a graduate program.

Applications are accepted Fall term only.

Readmission

The UCF SMST Graduate Programs will consider applications for readmission from students who have been dismissed and/or deactivated from its degree programs. Those interested in readmission MUST consult the Modeling and Simulation Graduate Program Director prior to their application to determine their eligibility to reapply and the requirements for their application.

Prerequisites

Though UCF SMST does not have a mandated prerequisite for its graduate programs, the most successful students are those who have an academic and/or work background that has prepared them in mathematics (introductory calculus and probability and statistics) and computer literacy, preferably, familiarity with at least one higher order programming language (e.g., Python, C/C++, Visual Basic, Java, etc.). Students with undergraduate or graduate degrees in Engineering, Computer Science, or Mathematics will generally have this background.

Students without this background are encouraged to select the elective course IDC 5570 (Introductory Mathematics for Modeling and Simulation). This course will prepare them for the required core course COT 6571 (Mathematical Foundations of Modeling and Simulation).

Graduate Application Deadlines

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<tr>
<td>International Applicants</td>
<td>Jan 15</td>
<td>Jan 15</td>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
**Degree Requirements**

**Core**
- Complete the following:
  - COT6571 - Mathematical Foundations of Modeling and Simulation (3)
  - IDS6147 - Perspectives on Modeling and Simulation (3)
  - IDS6145 - Simulation Techniques (3)
  - IDS6262 - Research Design for Modeling and Simulation (3)
  - IDS6267 - Understanding Humans for Modeling and Simulation (3)

**Restricted Elective**
- Complete all of the following
  - Complete at least 1 of the following:
    - IDC5602 - Cybersecurity: A Multidisciplinary Approach (3)
    - IDC6601 - Behavioral Aspects of Cybersecurity (3)
    - IDC6700 - Interdisciplinary Approach to Data Visualization (3)
    - IDS5142 - Modeling and Simulation for Instructional Design (3)
    - IDS6146 - Modeling and Simulation Systems (3)
    - IDS6149 - Modeling and Simulation for Test and Evaluation (3)
    - IDS6916 - Simulation Research Methods and Practicum (3)
- Students must select an elective course taught by the Modeling and Simulation Graduate Program. Approved courses are listed below, but others may be used with the program director's approval.

**Unrestricted Electives**
- Earn at least 39 credits from the following types of courses:
  - All Modeling and Simulation Ph.D. students must take at least 39 credits of unrestricted elective courses that reflect their two areas of specialization. Students are expected to carefully select electives with guidance from the program director and/or their faculty adviser. The UCF SMST has identified and approved over 175 courses that students may choose as unrestricted electives. This list can be found at msgrad.ist.ucf.edu. New courses are developed at the university every semester, so this list is updated once a semester. If a student identifies a course that will benefit their area of study but is not on the published list, they may request approval from the program director for inclusion in their plan of study. Unrestricted electives must consist of at least 9 credit hours of formal courses, excluding independent study. The remaining credits may consist of additional coursework, directed research, independent study, and additional dissertation as advised appropriately by faculty adviser and/or program director.

**Modeling and Simulation PhD Elective Courses**
- Complete all of the following
  - In addition to successfully completing the core courses for the M&S PhD program, students are required to carefully select electives with the guidance of a Program Director or faculty adviser. Elective choices should be made with the intent to strengthen a research interest and/or area of focus in order to meet the individual student's educational goals and objectives. Listed below are suggested courses in various areas of focus or specialization. These course groupings are mere guides, are not exhaustive and are only meant to assist with advising and course selection in order to meet the individual student's educational goals and objectives. They are not intended to restrict elective choices among focus areas as we strongly encourage Modeling and Simulation students to maintain an interdisciplinary approach to their graduate studies. If a student identifies another UCF course which may be of value to
his/her M&S research area, but is not already identified in a list below, that student may request approval from the Graduate Program Director for the course to be used as an elective in the Graduate Plan of Study. All such requests must be made in advance of enrolling in the course. Those electives categorized as “General” and “Fundamentals of Modeling and Simulation” would be appropriate for all students regardless of interest area. The remaining categories are grouped by area of interest.

**General**

- ESI 6247 - Experimental Design and Taguchi Methods 3 Credit Hours ESI 6891 - IEMS Research Methods 3 Credit Hours IDS 5907 - Independent Study Variable IDS 5917 - Directed Research Variable IDS 6908 - Independent Study Variable IDS 6918 - Directed Research Variable IDS 6946 - Internship Variable IDS 7919 - Doctoral Research Variable PHI 5340 - Research Methods in the Cognitive Sciences 3 Credit Hours PSY 6216C - Research Methodology 4 Credit Hours STA 5205 - Experimental Design 3 Credit Hours Fundamentals of Modeling and Simulation

- ESI 5219 - Engineering Statistics 3 Credit Hours ESI 6217 - Statistical Aspects of Digital Simulation 3 Credit Hours ESI 6247 - Experimental Design and Taguchi Methods 3 Credit Hours ESI 6532 - Object-Oriented Simulation 3 Credit Hours IDC 6700 - Interdisciplinary Approach to Data Visualization 3 Credit Hours IDS 6146 - Modeling and Simulation Systems 3 Credit Hours IDS 6147 - Perspectives on Modeling and Simulation 3 Credit Hours IDS 6149 - Modeling and Simulation for Test and Evaluation 3 Credit Hours IDS 6950 - Modeling and Simulation Capstone Report Planning 1 Credit Hours IDS 6145 - Simulation Techniques 3 Credit Hours Behavioral Cybersecurity

- CAP 6133 - Advanced Topics in Computer Security and Computer Forensics 3 Credit Hours CAP 6135 - Malware and Software Vulnerability Analysis 3 Credit Hours CDA 6530 - Performance Models of Computers and Networks 3 Credit Hours CJF 6688 - Cyber Crime and Criminal Justice 3 Credit Hours CNT 5008 - Computer Communication Networks Architecture 3 Credit Hours CNT 5410L - Cyber Operations Lab 3 Credit Hours CNT 6519 - Wireless Security and Forensics 3 Credit Hours COT 5405 - Design and Analysis of Algorithms 3 Credit Hours EEL 6785 - Computer Network Design 3 Credit Hours EEL 6883 - Software Engineering II 3 Credit Hours ESI 5531 - Discrete Systems Simulation 3 Credit Hours EXP 6506 - Human Cognition and Learning 3 Credit Hours IDC 5602 - Cybersecurity: A Multidisciplinary Approach 3 Credit Hours IDC 6600 - Emerging Cyber Issues 3 Credit Hours IDC 6601 - Behavioral Aspects of Cybersecurity 3 Credit Hours IDS 6916 - Simulation Research Methods and Practicum 3 Credit Hours INR 6366 - The Intelligence Community 3 Credit Hours PH 6938 - ST: Digital Ethics 3 Credit Hours STA 5703 - Data Mining Methodology 13 Credit Hours STA 5825 - Stochastic Processes and Applied Probability Theory 3 Credit Hours Human Systems

- CAP 6515 - Algorithms in Computational Biology 3 Credit Hours CAP 6671 - Intelligent Systems: Robots, Agents, and Humans 3 Credit Hours CAP 6676 - Knowledge Representation 3 Credit Hours DIG 6432 - Transmedia Story Creation 3 Credit Hours DIG 6812 - Digital Interaction for Informal Learning 3 Credit Hours EIN 5248 - Ergonomics 3 Credit Hours EIN 5317 - Training System Design 3 Credit Hours EIN 6215 - System Safety Engineering and Management 3 Credit Hours EIN 6258 - Human Computer Interaction 3 Credit Hours EIN 6649C - Intelligent Tutoring Training System Design 3 Credit Hours EME 6458 - Virtual Teaching and the Digital Educator 3 Credit Hours EME 6507 - Multimedia for Education and Training 3 Credit Hours EME 6601 - Instructional Simulation Design for Training and Education 3 Credit Hours EME 6614 - Instructional Game Design for Training and Education 3 Credit Hours EME 6646 - Instructional Game Design for Training and Education 3 Credit Hours EXP 5208 - Sensation and Perception 3 Credit Hours ESI 5256 - Human Factors I 3 Credit Hours EXP 6255 - Human Factors II 3 Credit Hours EXP 6257 - Human Factors III 3 Credit Hours EXP 6506 - Human Cognition and Learning 3 Credit Hours EXP 6541 - Advanced Human Computer Interaction 3 Credit Hours IDS 6148 - Human Systems Integration for Modeling and Simulation 3 Credit Hours IDS 6149 - Modeling and Simulation for Test and Evaluation 3 Credit Hours PHI 5225 - Philosophy of Language 3 Credit Hours PHI 6701 - Topics in Philosophy of Mind 3 Credit Hours PHI 5327 - Topics in the Cognitive Sciences 3 Credit Hours PHI 5329 - Philosophy of Neuroscience 3 Credit Hours PSB 5005 - Psychophysiology 3 Credit Hours TTE 6270 - Intelligent Transportation Systems 3 Credit Hours Computer Visualization

- CAP 5725 - Computer Graphics I 3 Credit Hours CAP 6411 - Computer Vision Systems 3 Credit Hours CAP 6412 - Advanced Computer Vision 3 Credit Hours CAP 6476 - Knowledge Representation 3 Credit Hours CDA 5106 - Advanced Computer Architecture 3 Credit Hours COT 5405 - Design and Analysis of Algorithms 3 Credit Hours DIG 6605 - Physical Computing I 3 Credit Hours DIG 6647 - History and Theory of Dynamic Media 3 Credit Hours EIN 6258 - Human Computer Interaction 3 Credit Hours EEL 5173 - Linear Systems Theory 3 Credit Hours EEL 5771C - Engineering Applications of Computer Graphics 3 Credit Hours EEL 5820 - Image Processing 3 Credit Hours EEL 5825 - Pattern Recognition and Learning from Big Data 3 Credit Hours EEL 5874 - Expert Systems and Knowledge Engineering 3 Credit Hours EEL 6823 - Image Processing II 3 Credit Hours EEL 6843 - Machine Perception 3 Credit Hours ESI 6247 - Experimental Design and Taguchi Methods 3 Credit Hours IDC 6700 - Interdisciplinary Approach to Data Visualization 3 Credit Hours MAP 5117 - Mathematical Modeling 3 Credit Hours MAP 6118 - Introduction to Nonlinear Dynamics 3 Credit Hours MAT 5712 - Scientific Computing 3 Credit Hours Quantitative Methods for Simulation, Modeling and Analysis

- CAP 5512 - Evolutionary Computation 3 Credit Hours CAP 6515 - Algorithms in Computational Biology 3 Credit Hours CDA 6530 - Performance Models of Computers and Networks 3 Credit Hours COT 5405 - Design and Analysis of Algorithms 3 Credit Hours EEL 6528 - Simulation Based Life Cycle Engineering 3 Credit Hours ESI 5306 - Operations Research 3 Credit Hours ESI 5531 - Discrete Systems Simulation 3 Credit Hours ESI 6217 - Statistical Aspects of Digital Simulation 3 Credit Hours ESI 6247 - Experimental Design and Taguchi Methods 3 Credit Hours IDC 6700 - Interdisciplinary Approach to Data Visualization 3 Credit Hours MAP 5117 - Mathematical Modeling 3 Credit Hours MAP 6111 - Mathematical Statistics 3 Credit Hours MAP 6118 - Introduction to Nonlinear Dynamics 3 Credit Hours MAP 6207 - Optimization Theory 3 Credit Hours MAP 6385 - Applied Numerical Mathematics 3 Credit Hours MAP 6407 - Integral Equations and the Calculus of Variations 3 Credit Hours MAP 6408 - Perturbations and Asymptotic Methods 3 Credit Hours MAP 6445 - Approximation Techniques 3 Credit Hours MAT 5712 - Scientific Computing 3 Credit Hours STA 5703 - Data Mining Methodology I 3 Credit Hours STA 5825 - Stochastic Processes and Applied Probability Theory 3 Credit
Simulation in Healthcare
- CAP 6515 - Algorithms in Computational Biology 3 Credit Hours CAP 6671 - Intelligent Systems: Robots, Agents, and Humans 3 Credit Hours CAP 6676 - Knowledge Representation 3 Credit Hours DIG 6647 - History and Theory of Dynamic Media 3 Credit Hours DIG 6812 - Digital Interaction for Informal Learning 3 Credit Hours EEL 5820 - Image Processing 3 Credit Hours EEL 6823 - Image Processing II 3 Credit Hours EIN 6645 - Real-Time Simulation Agents 3 Credit Hours ESI 5531 - Discrete Systems Simulation 3 Credit Hours EUM 5802 - Applied Contemporary Humanities 3 Credit Hours FGR 5537 - Introduction to Healthcare Simulation 3 Credit Hours NGR 5771L - Healthcare Simulation Practicum 3 Credit Hours NGR 6794 - Organizational Leadership and Operations in Healthcare Simulation 3 Credit Hours NGR 6778 - Healthcare Simulation Capstone Project 3 Credit Hours PHI 5329 - Philosophy of Neuroscience 3 Credit Hours PSB 5005 - Physiological Psychology 3 Credit Hours SPA 6417 - Cognitive/Communicative Disorders 3 Credit Hours

Interactive Simulation and Intelligent Systems
- CAP 5512 - Evolutionary Computation 3 Credit Hours CAP 5610 - Machine Learning 3 Credit Hours CAP 5636 - Advanced Artificial Intelligence 3 Credit Hours CAP 6671 - Intelligent Systems: Robots, Agents, and Humans 3 Credit Hours CAP 6676 - Knowledge Representation 3 Credit Hours DIG 6812 - Digital Interaction for Informal Learning 3 Credit Hours EEL 5771C - Engineering Applications of Computer Graphics 3 Credit Hours EEL 5874 - Expert Systems and Knowledge Engineering 3 Credit Hours EEL 6878 - Modeling and Artificial Intelligence 3 Credit Hours EIN 5251 - Usability Engineering 3 Credit Hours EIN 5255C - Interactive Simulation 3 Credit Hours EIN 6258 - Human Computer Interaction 3 Credit Hours EIN 6645 - Real-Time Simulation Agents 3 Credit Hours EIN 6647 - Intelligent Simulation 3 Credit Hours EIN 6649C - Intelligent Tutoring Training System Design 3 Credit Hours EME 6613 - Instructional System Design 3 Credit Hours ESI 6247 - Experimental Design and Taguchi Methods 3 Credit Hours ETS 6149 - Modeling and Simulation for Test and Evaluation 3 Credit Hours

Simulation Infrastructure
- CAP 6671 - Intelligent Systems: Robots, Agents, and Humans 3 Credit Hours CAP 6676 - Knowledge Representation 3 Credit Hours DIG 6812 - Digital Interaction for Informal Learning 3 Credit Hours EEL 5771C - Engineering Applications of Computer Graphics 3 Credit Hours EEL 5874 - Expert Systems and Knowledge Engineering 3 Credit Hours EEL 6878 - Modeling and Artificial Intelligence 3 Credit Hours EIN 5251 - Usability Engineering 3 Credit Hours EIN 5255C - Interactive Simulation 3 Credit Hours EIN 6258 - Human Computer Interaction 3 Credit Hours EIN 6645 - Real-Time Simulation Agents 3 Credit Hours EIN 6647 - Intelligent Simulation 3 Credit Hours EIN 6649C - Intelligent Tutoring Training System Design 3 Credit Hours EME 6613 - Instructional System Design 3 Credit Hours ESI 6247 - Experimental Design and Taguchi Methods 3 Credit Hours ETS 6149 - Modeling and Simulation for Test and Evaluation 3 Credit Hours

Simulation Management
- EIN 5108 - The Environment of Technical Organizations 3 Credit Hours EIN 5117 - Management Information Systems I 3 Credit Hours EIN 5140 - Project Engineering 3 Credit Hours EIN 5356 - Cost Engineering 3 Credit Hours EIN 6182 - Engineering Management 3 Credit Hours EIN 6215 - System Safety Engineering and Management 3 Credit Hours EIN 6339 - Operations Engineering 3 Credit Hours EIN 6357 - Advanced Engineering Economic Analysis 3 Credit Hours EIN 6528 - Simulation Based Life Cycle Engineering 3 Credit Hours ESI 5227 - Total Quality Improvement 3 Credit Hours ESI 6224 - Quality Management 3 Credit Hours ESI 6358 - Decision Analysis 3 Credit Hours ESI 6551 - Systems Engineering 3 Credit Hours IDC 6700 - Interdisciplinary Approach to Data Visualization 3 Credit Hours IDS 6149 - Modeling and Simulation for Test and Evaluation 3 Credit Hours

Waived Credits
0 Total Credits
- The doctoral program will allow up to 30 credit hours to be waived from an earned master’s degree.

Dissertation
15 Total Credits
- Earn at least 15 credits from the following types of courses:
  Before entering the dissertation portion of the degree program, a student must successfully complete the qualifying examination and candidacy examination milestones. More information for both examinations can be found at msgrad.ist.ucf.edu. XXX 7980 - Dissertation Research 15 Credit Hours minimum

Plan of Study
0 Total Credits
- After admission to the Modeling and Simulation Ph.D. program and before the end of the third term of enrollment, students must submit a Graduate Plan of Study (GPS) to the Modeling and Simulation Graduate Program office. The GPS helps the student design an appropriate program of coursework to support the student's educational needs, goals, and objectives. The GPS should be developed in concert with the student's faculty adviser or (if adviser is not yet identified) program director and form a unified cohesive strategy for degree completion. All doctoral program credit must be at the 5000-level or higher, with a minimum of 50% at the 6000- or 7000-level. Students are eligible to make changes to their Graduate Plan of Study at any time, with the approval of their faculty adviser and the Modeling and Simulation Graduate Program.

Equipment Fee
0 Total Credits
- Full-time students in the Modeling and Simulation PhD program pay a $27 equipment fee each semester that they are enrolled. Part-time students pay a $13.50 equipment fee each semester that they are enrolled.

Milestones
In addition to their coursework, all Modeling and Simulation Ph.D. students are required to successfully complete three milestones before the award of their degree: qualifying examination; candidacy examination; and dissertation defense.

Candidacy Examination

- Students are eligible to complete the SMST Candidacy Examination (CE) requirement once they successfully complete the QE; are within 6 credits of completing all coursework (i.e., completed at least 51 credits of coursework); have an approved up-to-date GPS on file with the graduate program; and have an advisory committee (approved by the College of Graduate Studies) on file. The CE consists of: Dissertation research proposal Oral defense of the dissertation research proposal Refereed published (or accepted for publication) manuscript on the student's dissertation topic Detailed information and protocol regarding the CE can be found at msgrad.ist.ucf.edu

Dissertation Adviser and Advisory Committee

- Students are responsible for selecting an adviser from a list of faculty members authorized to direct dissertations to serve as the chair of their advisory committee. Then, in concert with their adviser, the student must identify and select the remaining members of the advisory committee. The advisory committee must contain a minimum of four members (chair plus three members). All committee members must hold a terminal degree and be in fields related to the student's dissertation topic. At least three members, including the chair, must be classified as Modeling and Simulation graduate faculty. These faculty members must be from (or represent) at least two different colleges. At least one member must have served as a committee member on a prior SMST advisory committee. With approval from the Modeling and Simulation Graduate Program Director, a committee member may serve as a committee's co-chair. The UCF College of Graduate Studies, as well as UCF SMST, reserve the right to review appointments to advisory committees; place a representative on any advisory committee; or appoint a co-adviser.

Admission to Candidacy

- Students who fulfill all the requirements for the candidacy examination and have an approved advisory committee on file will be admitted to candidacy and authorized to enroll for dissertation hours.

Dissertation Defense

- The dissertation defense is a formal oral presentation of the written dissertation before the student's advisory committee. All dissertation defenses are announced in advance and open to the public. Committee members vote either "Pass" or "Fail" of the written dissertation and oral defense. The dissertation and its defense must be approved by a majority vote, with no more than one dissenting vote. Normally, students are granted one opportunity to pass the dissertation defense. In extenuating circumstances and at the discretion of the Modeling and Simulation Graduate Program Director, a student may be allowed one additional attempt to pass the dissertation defense (no more than two attempts will be allowed).

Time to Completion

- Students are granted 7 years (21 semesters) from the term of admission to complete their degree program. Failure to comply with the "7-Year Rule" may result in dismissal from the program, and may require reapplication to the program as well as repeating coursework and other program requirement.

Independent Learning

- The dissertation is an independent project completed under the guidance of a student's faculty advisory committee. All research, data collection and analysis, and writing of the project are completed by the student, creating a challenging and fulfilling independent learning experience.

Grand Total Credits: 72

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Nanotechnology MS

College
College of Graduate Studies

Department
NanoScience Technology Center

Program Website
nano.ucf.edu

Program Handbook
Nanotechnology MS

Program Contact Information
Saiful Khondaker PhD
Professor
Saiful@ucf.edu
Telephone: 407-882-2844
PVL 0432

Is this program available 100% online?
No

Program Description
The Master of Science in Nanotechnology program provides students with scientific knowledge and research training in nanoscience and nanotechnology. The program prepares students for seeking employment in industry and academia involved in nanotechnology research, product development and commercialization, or to pursue advanced PhD degrees in related areas.

The Nanotechnology MS program consists of 30 credit hours of study that covers Fall, Spring and Summer consecutive academic terms. Admissions to the program occur in both the Fall and Spring semester of each year, and students are expected to finish the degree in two years.

The program of study includes a balanced course offering including interdisciplinary scientific courses and research training in the field of nanotechnology. The curriculum of courses is delivered via face-to-face instruction. The program includes 3 credit hours of independent study and 6 credit hours of thesis research under the supervision of a faculty at the NanoScience Technology Center. This training will provide students with hands-on research experiences on nanomaterial synthesis, nanostructure fabrication and characterization, and application development in their interested areas.

This degree has 1 track: Non-Thesis Track. Please scroll to the bottom of this page for further details on this Track.

Program Prerequisites
Applicants should have obtained an undergraduate degree in one of the following areas: physics, chemistry, biology, or engineering.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants should have obtained an undergraduate degree in one of the following areas: physics, chemistry, biology, or engineering.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Résumé or Curriculum Vitae
- Goal Statement
  - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a master’s degree in Nanotechnology. Future career goals after the completion of the applicant’s master study should be discussed.
  - The goal statement should between 500 and 1,000 words.
- Three letters of recommendation
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

The acceptance decision will be based on the assessment of the applicant’s GPA from previous college/university, past work experience, recommendation letters and the statement of interest and objectives. Additionally, the committee will evaluate other academic indicators such as having completed a senior thesis, authorship on publications, internship, involvement in scientific research projects, and/or presentations at major scientific meetings and non-academic indicators such as evidence of leadership, extracurricular activities, work or military experience, and/or volunteer activities. For applicants that already have had working experiences in STEM (Science, Technology, Engineering, Mathematics) fields, emphasis will be placed on their past experiences and recommendation letters.

Readmission

Applicants who are applying for readmission need not resubmit transcripts if the transcripts are previously on file with UCF. However, the following application requirements do need to be current for the new readmission application:

- Résumé/Curriculum Vitae
- Goal Statement
- Letters of Recommendation

Graduate Application Deadlines

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<tr>
<th>Nanotechnology MS</th>
<th>*Fall Priority</th>
<th>Fall</th>
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<th>Summer</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
15 Total Credits

- Complete all of the following
  Core Courses
  - Complete at least 4 of the following:
    - IDS6250 - Introduction to Nanoscience and Nanotechnology (3)
    - IDS6254 - Nanofabrication and Characterization (3)
    - IDS6252 - Biomedical Nanotechnology (3)
    - IDS6255 - Nanotechnology in Energy and Sustainability (3)
    - IDS6253 - Bioanalytical Technology (3)

- Independent Study
  - Earn at least 3 credits from the following types of courses:
    Students will take 3 credit hours of independent study, resulting in a required research report of independent learning experience. Independent Study must have a formally defined core of knowledge to be learned by the student. In accordance with the policy of the College of Graduate Studies, the core of knowledge to be learned by the student must be specified in written form and approved by the student, the instructor, and the program coordinator prior to enrollment in Independent Study.

Elective Courses
9 Total Credits

- Complete at least 3 of the following:
  - IDS6257 - Principles and Techniques of Nanobiology (3)
  - IDS6258 - Advanced Materials and Nanotechnology for Rechargeable Batteries (3)
  - IDS6260 - Electrical and Optical Properties of Nanoscale Materials and Devices (3)
  - IDS6261 - Nanotechnology for Sustainable Agriculture (3)
  - EMA5586 - Photovoltaic Solar Energy Materials (3)
  - EMA5060 - Polymer Science and Engineering (3)
  - EMA6518 - Transmission Electron Microscopy (3)
  - EMA6605 - Materials Processing Techniques (3)
  - PHY5933 - Selected topics in biophysics of macromolecules (3)
  - OSE5312 - Light Matter Interaction (3)
  - OSE6938 - ST: Infrared Detectors (3)
  - MCB5225 - Molecular Biology of Disease (3)
  - PCB5238 - Immunobiology (3)
  - PCB5236 - Cancer Biology (3)
  - CHM6710 - Applied Analytical Chemistry (3)
  - Course Not Found

Thesis
6 Total Credits

- Complete all of the following
  - Earn at least 6 credits from the following:
    - IDS6971 - Thesis Research (3)
  - Students will conduct and complete an independent thesis research project under the supervision of a NanoScience Technology Center faculty. The student will defend the thesis at the completion of the study. Students will gain hands-on research experiences on nanomaterial synthesis, nanostructure fabrication and characterization, and application development in their interested areas.

Grand Total Credits: 30

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
finaid.ucf.edu
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
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gradfellowship@ucf.edu
funding.graduate.ucf.edu

Nanotechnology MS - Nanotechnology MS, Non-Thesis Track

College
College of Graduate Studies

Department
NanoScience Technology Center

Track Website
http://nano.ucf.edu

Track Handbook
Nanotechnology MS, Non-Thesis Track

Track Contact Information
Saiful Khondaker PhD
Professor
Saiful@ucf.edu
Telephone: 407-882-2844
PVL 0432

Is this track available 100% online?
No

Track Description
The Master of Science in Nanotechnology Non-Thesis Track program provides students with knowledge and research training in nanoscience and nanotechnology. The program prepares students for seeking employment in industry and academia involved in nanotechnology research, product development, and commercialization, or to pursue advanced PhD degrees in related areas.

Track Prerequisites
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Résumé or Curriculum Vitae
- Goal Statement
  - The goal statement should discuss all relevant professional background and any previous research and/or teaching experience. The statement should explain the motivation behind the pursuit of a master's degree in Nanotechnology. Future career goals after the completion of the applicant's master study should be discussed.
  - The goal statement should between 500 and 1,000 words.
- Three letters of recommendation
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

The acceptance decision will be based on the assessment of the applicant's GPA from previous college/university, past work experience, recommendation letters and the statement of interest and objectives. Additionally, the committee will evaluate other academic indicators such as having completed a senior thesis, authorship on publications, internship, involvement in scientific research projects, and/or presentations at major scientific meetings and non-academic indicators such as evidence of leadership, extracurricular activities, work or military experience, and/or volunteer activities. For applicants that already have had working experiences in STEM (Science, Technology, Engineering, Mathematics) fields, emphasis will be placed on their past experiences and recommendation letters.
Application Requirements

Applicants should have obtained an undergraduate degree in one of the following areas: physics, chemistry, biology, or engineering.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Anthony Tufano
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Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

Core Courses
- Complete at least 4 of the following:
  - IDS6250 - Introduction to Nanoscience and Nanotechnology (3)
  - IDS6252 - Biomedical Nanotechnology (3)
  - IDS6253 - Bioanalytical Technology (3)
  - IDS6254 - Nanofabrication and Characterization (3)
  - IDS6255 - Nanotechnology in Energy and Sustainability (3)

Independent Study
3 Total Credits
- Complete all of the following
  - Earn at least 3 credits from the following:
    - IDS6908 - Directed Independent Studies (3)
  - Students will receive basic training under the supervision of a NanoScience Technology Center faculty to conduct research, including ethical training, safety training, attending seminar presentations, conduction a literature survey, and using various instrumentation techniques for research.

Elective Courses
15 Total Credits
- Complete all of the following
  - Elective Courses
  - Complete all of the following
    - Earn at least 6 credits from the following:
      - IDS6257 - Principles and Techniques of Nanobiology (3)
      - IDS6258 - Advanced Materials and Nanotechnology for Rechargeable Batteries (3)
      - IDS6260 - Electrical and Optical Properties of Nanoscale Materials and Devices (3)
      - IDS6261 - Nanotechnology for Sustainable Agriculture (3)
      - EMA5586 - Photovoltaic Solar Energy Materials (3)
      - EMA5060 - Polymer Science and Engineering (3)
      - EMA6518 - Transmission Electron Microscopy (3)
      - EMA6605 - Materials Processing Techniques (3)
      - OSE5312 - Light Matter Interaction (3)
      - MCB5225 - Molecular Biology of Disease (3)
      - PCB5238 - Immunobiology (3)
      - PCB5236 - Cancer Biology (3)
      - CHM6710 - Applied Analytical Chemistry (3)
    - Elective courses may be chosen from the following recommended course list. Core courses taken beyond the 4-core course requirement may be used to satisfy the elective course requirement. Other courses may be taken as elective courses upon the approval of your graduate program director.

Open Elective Courses
- Earn at least 9 credits from the following types of courses:
  - As part of completing programmatic requirements, student must also select an additional 9 credit hours of open elective courses in the general field of science, engineering, or business. These courses must be at the graduate level and be approved by the Program Director before registration. To be noted, one of these open electives could also be another 3 credit hours of Independent Study to continue research training under the supervision of a faculty.

Grand Total Credits: 30

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
finaid.ucf.edu

2021-2022 Graduate Catalog
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
funding.graduate.ucf.edu

Nondegree or Transient

College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Program Website
http://www.graduate.ucf.edu/

Is this program available 100% online?
No

Program Description

The Nondegree program is for students who have completed at least a baccalaureate degree from an accredited institution recognized by UCF in the United States and are not seeking a graduate degree. Students in this status may be interested in taking graduate courses at UCF for personal or professional enhancement, to prepare for possible admission to a graduate degree-seeking or certificate program, or to complete enrollment requirements at another university. Students who are enrolled in a graduate program at another university and want to take courses at UCF and transfer it to their home institution are considered transient students and nondegree-seeking at UCF.

Not all graduate degree programs at UCF allow students in Nondegree status to enroll in their courses. It is best to contact the program director for the graduate program that offers the course prior to applying.

Admission into Nondegree status does not guarantee admission to a graduate degree-seeking or certificate program at UCF. International students are not eligible for Nondegree status unless they hold an eligible visa. International students taking online courses from their home country are eligible to be nondegree seeking since they do not require a visa.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to completing the online application, Nondegree applicants will need to submit an official, final transcripts from an accredited institution recognized by UCF showing a conferred bachelor's degree.

Nondegree-seeking students will also be required to submit an Immunization Form prior to enrollment. Although this form is not used in the admission process, students will not be allowed to enroll at UCF without submitting the required Immunization Form.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Nondegree or Transient</th>
<th>*Fall Priority</th>
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College of Health Professions and Sciences

Aging Studies Graduate Certificate

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Program Website**
https://healthprofessions.ucf.edu/socialwork/

**Is this program available 100% online?**
No

**Program Description**
The Graduate Certificate in Aging Studies is designed to prepare individuals presently employed in the aging field to increase their knowledge of the special needs of our elderly citizens.

Graduate students who are enrolled in health sciences, psychology, social work, nursing, communication sciences and disorders, or sociology, as well as in other areas, such as liberal arts, music education, physical education, or art education, will find the certificate valuable. The mission of the aging studies certificate is to prepare individuals from diverse disciplines to address the physiological, psychological, sociological, environmental, cultural, legal-ethical, and public policy dynamics inherent in the lives of older adults.

**This program will not be accepting applications or enrolling new students effective Fall 2010.**

**Application Requirements**
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.
Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements
Required Courses
3 Total Credits

- Complete the following:
  - GEY5648 - Gerontology: An Interdisciplinary Approach (3)

Elective Courses
12 - 14 Total Credits

- Complete 1 of the following
  - Earn at least 12 credits from the following:
    - GEY5600 - Physiology of Aging (3)
    - GEY5007 - Women and Healthy Aging (3)
    - NGR5690 - Interdisciplinary Care at End-of-Life (3)
    - PHT6374C - Geriatric Physical Therapy (2)
    - SOW6938 - Special Topics (1 - 99)

  - Physical Therapy Majors
    - Earn at least 14 credits from the following:
      - GEY5600 - Physiology of Aging (3)
      - GEY5007 - Women and Healthy Aging (3)
      - NGR5690 - Interdisciplinary Care at End-of-Life (3)
      - PHT6374C - Geriatric Physical Therapy (2)
      - SOW6938 - Special Topics (1 - 99)

Grand Total Credits: **15 - 17**

Anatomical Sciences Graduate Certificate

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy

**Program Website**
https://healthprofessions.ucf.edu/graduate/

**Program Contact Information**

Patrick Pabian DPT
patrick.pabian@ucf.edu
Telephone: 407-823-3470
HS 1 256

Is this program available 100% online?
No
**Program Description**

The Anatomical Sciences Graduate Certificate provides students with coursework to become an effective anatomist in higher education fields related to health and medical sciences. The program provides a depth of understanding of the anatomical sciences and substantial hands-on experience in the gross anatomy laboratory. The amount and level of coursework offers students the rigorous training to develop distinct expertise in anatomy knowledge, dissection technique, and instruction requisite for careers as an anatomist in health or medical science education.

**Program Prerequisites**

Admission is open to those who have completed a graduate program in Physical Therapy, Occupational Therapy, or other related health or medical science-related discipline. Alternatively, those with a Bachelor's degree from a regionally accredited institution and have earned a GPA of at least 3.5 in the following pre-requisite coursework will be considered:

- Anatomy or Anatomy and Physiology (8 credits total with labs)
- Physics (8 credits total with labs)
- Biology (6 credits minimum)
- Chemistry (6 credits minimum)

**Application Requirements**

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

**Graduate Application Deadlines**

<table>
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<tr>
<th>Anatomical Sciences Graduate Certificate</th>
<th>*Fall Priority</th>
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</table>

**Graduate School Contact**

Grace Guilliams  
gradmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

- GRE: 5233
- GMAT: RZT-HT-58
- TOEFL: 5233
- ETS PPI: 5233
**Degree Requirements**

Required Courses
18 Total Credits

- Complete the following:
  - PHT6115C - Gross Anatomy/Neuroscience I (6)
  - PHT6118C - Gross Anatomy/Neuroscience II (6)
  - PHT6510 - Administration of Anatomical Sciences Laboratory (3)
  - PHT6119L - Seminar in Anatomical Sciences Techniques (3)

Elective Courses
2 Total Credits

- Earn at least 2 credits from the following:
  - BSC5665 - Clinical Embryology and Congenital Malformations (3)
  - PET6335 - Functional Anatomy and Kinesiology (3)
  - PET6388 - Cardiovascular Physiology (3)
  - PHT5125 - Clinical Kinesiology (2)
  - PHT6306 - Pathology in Rehabilitation (2)
  - ZOO5758C - Vertebrate Histology (4)
  - ANG5525C - Human Osteology (4)
  - ANG6520C - Advanced Human Osteology (3)

Grand Total Credits: **20**

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

**Athletic Training MAT**

**College**

College of Health Professions and Sciences

**Department**

School of Kinesiology and Physical Therapy

**Program Website**

https://healthprofessions.ucf.edu/athletictraining

**Program Handbook**

Athletic Training Program Handbook

**Program Contact Information**

- **Kristen Schellhase EdD, LAT, ATC**
  - Program Director/Associate Lecturer
  - kristen.schellhase@ucf.edu
  - Telephone: 407-823-3463
  - Health Sciences II 121

- **Kim MacLennan**
  - Academic Program Coordinator
  - kim.maclennan@ucf.edu
  - Telephone: 407-823-2747
  - Health Sciences II 119
Is this program available 100% online?

No

Licensure Disclosure

The program is fully accredited by the Commission on Accreditation of Athletic Training Education (CAATE) through 2026-27. For information on how this program may prepare students for professional licensure, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Master-of-Athletic-Training-June2020.pdf.

Program Description

The Master of Athletic Training (MAT) program is designed to enable students to demonstrate, in the classroom and during clinical experiences, that they have achieved levels of comprehension, competency, and proficiency expected of entry-level athletic trainers.

The program's classroom component is divided into two sections: athletic training theory and practice, and clinical experiences. The courses are designed to expose students to information through multiple didactic, laboratory, and clinical experiences. These courses incorporate the Curricular Content Standards set forth by the Commission on Accreditation of Athletic Training Education (CAATE).

All students are required to complete the curriculum in the established sequence of courses.

By combining excellence in teaching, the latest technologies available in education, and outstanding clinical site affiliations, graduates of the program are fully prepared to take and pass the comprehensive Board of Certification (BOC) exam and start their careers as athletic trainers.

Mission

The Master of Athletic Training program prepares graduates to advance the quality of healthcare provided to physically active people through interdisciplinary patient-centered education. The Program is committed to providing students with enriching didactic, clinical, and research experiences that foster communication, critical thinking, leadership, and collaboration. Graduates of the Program will understand the role of the athletic trainer as a member of the healthcare team and will advocate for the advancement of the profession.

Vision

The Master of Athletic Training program aspires to be a nationally recognized leader in athletic training education where diverse students, faculty, and preceptors advance healthcare through innovation in education, research, and clinical practice.

Values

The Master of Athletic Training program faculty values initiative, integrity, compassion, inclusion, and altruism.

The MAT degree program is a two-year full-time professional master's program. The courses are taken in a prescribed sequence over 6 semesters, including 18 credit hours of clinical practice. Clinical practice occurs under the direct supervision of a certified and licensed athletic trainer.

Program Prerequisites

Completion of prerequisite coursework outlined below with a minimum grade of "C" (2.0) is required. Candidates with all prerequisites completed at the time of application may be given preference over those still completing courses. Courses older than 10 years will not be accepted.

General Bio/Biology - A minimum of 4 credits (including a lab) for science majors - Biology courses for non-science majors and non-human biology courses are not acceptable.

Human Anatomy and Physiology - A minimum of 8 credits (including two labs) for science majors - Anatomy and physiology courses for non-science majors and non-human anatomy and physiology courses are not acceptable.

Option 1: One semester of Human Anatomy with lab and one semester of Human Physiology with lab

Option 2: Two semesters of Anatomy and Physiology combined courses with a lab each (A&P-I and A&P-II)

Statistics - A minimum of 3 credit hours

Human Nutrition /Clinical Nutrition - A minimum of 3 credit hours for science or health/medicine/nursing majors

General Psychology - A minimum of 3 credit hours - Any course taken within a psychology department/unit will be acceptable.

Exercise Physiology - A minimum of 3 credit hours

Biomechanics or Kinesiology - A minimum of 3 credit hours

General Chemistry/Chemistry I - A minimum of 4 credits (including a lab) for science majors

Physics I - A minimum of 4 credits (including a lab) for science majors
**Application Requirements**

This track and its application process should be used by:

Applicants with a bachelor's degree from an institution outside of UCF

And

Students who hold or will earn a degree from UCF AND intend to apply to athletic training graduate programs at other institutions AND UCF.

UCF students who hold or will earn a degree from UCF AND only intend to apply to the UCF Masters of Athletic Training should apply through the Athletic Training MAT - UCF BS to UCF MAT Track (Track requires an application through UCF Online Graduate Application but does NOT require an application through ATCAS).

Applicants must apply to both UCF Graduate Admissions and the Athletic Training Centralized Application System (ATCAS).

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog.

The Master of Athletic Training program participates in the Athletic Training Centralized Application Service, known as ATCAS. Prospective students must apply online using the ATCAS application. In addition to the ATCAS application, applicants must also submit a UCF application for graduate admissions at https://applynow.graduate.ucf.edu/apply/. Both the ATCAS application and the UCF Graduate application must be submitted by the posted application deadline.

All application materials MUST be sent directly to ATCAS. Supporting documents (transcripts, letters, etc.) should not be sent directly to the MAT program or UCF College of Graduate Studies and will not be reviewed. To learn more about the ATCAS application process, visit http://caate.net/apply-now/.

Admission to the MAT program is competitive and applications are reviewed as they are received beginning February 1. Students may continue to apply after February 1 and will be evaluated (rolling admissions) until seats are filled. The final deadline for applications is April 1.

The following application materials must be received by ATCAS:

- Completed ATCAS application including all documents required by ATCAS.
- One official transcript from each college/university attended.
  - The transcripts must demonstrate a minimum of a 3.0 overall GPA in undergraduate coursework and completion of prerequisite coursework with a minimum grade of "C" (2.0).
  - Candidates with all prerequisites completed at the time of application may be given preference over those still completing courses.
  - The bachelor's degree may be in any discipline from an accredited institution recognized by UCF and may be in progress at the time of application. However, the degree must be awarded prior to the program's start date in the Summer C semester (mid-May).
  - Applicants who have attended a college/university outside the United States must also provide a course-by-course credential evaluation with GPA calculation.
- The GRE is not required for admission to this program.
- Proof of 50 hours of observation of an athletic trainer (BOC certified) in a high school, collegiate, and/or professional sports setting.
- Three (3) letters of recommendation with ATCAS recommendation forms, including one from an athletic trainer.
- Complete a personal statement/essay about professional goals and the discipline of athletic training.

Incomplete applications will NOT be reviewed.

- An interview, by invitation only, may be required after the initial application review process is complete.
- Admission to the program is competitive. Meeting minimum requirements does not guarantee an applicant an interview or admission to the program.
- Admissions decisions will be made only once per academic year. Incoming students must begin the program in the summer C semester (mid-May).
- Admission to the MAT program is competitive and applications are reviewed as they are received beginning February 1. Students may continue to apply after February 1 and will be evaluated (rolling admissions) until seats are filled. The final deadline for applications is April 1.

**Graduate Application Deadlines**

<table>
<thead>
<tr>
<th>Track</th>
<th>Fall Priority</th>
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<td>Nov 1</td>
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</table>

**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
Graduate School Contact
Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
65 Total Credits

- Complete all of the following
  - Summer 1 - Semester 1
    - Complete the following:
      - ATR5016 - Foundational Behaviors of Athletic Training Practice I (1)
      - ATR5106C - Prevention of Injury and Illness in Athletic Training Practice (2)
      - ATR5206C - Functional Human Anatomy for Athletic Trainers (3)
      - ATR5117C - Acute Care in Athletic Training Practice I (3)
  - Fall 1 - Semester 2
    - Complete the following:
      - ATR5017 - Foundational Behaviors of Athletic Training Practice II (1)
      - ATR5219C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice I (3)
      - ATR5306C - Therapeutic Interventions in Athletic Training Practice I (3)
      - ATR5406C - General Medical Conditions in Athletic Training Practice I (2)
      - ATR5815L - Practicum in Athletic Training I (2)
  - Spring 1 - Semester 3
    - Complete the following:
      - ATR5217C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice II (3)
      - ATR5307C - Therapeutic Interventions in Athletic Training Practice II (3)
      - ATR5516 - Healthcare Administration in Athletic Training Practice I (2)
      - ATR5825L - Practicum in Athletic Training II (2)
      - ATR6407C - General Medical Conditions in Athletic Training Practice II (2)
  - Summer 2 - Semester 4
    - Complete the following:
      - ATR6218C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice III (3)
      - ATR6308C - Therapeutic Interventions in Athletic Training Practice III (3)
      - ATR6618C - Athletic Training Research II (1)
      - ATR6835L - Practicum in Athletic Training III (1)
  - Fall 2 - Semester 5
    - Complete the following:
      - ATR6309C - Therapeutic Interventions in Athletic Training Practice IV (3)
      - ATR6845L - Practicum in Athletic Training IV (9)
  - Spring 2 - Semester 6
    - Complete the following:
      - ATR6517 - Healthcare Administration in Athletic Training Practice II (2)
      - ATR6505 - Athletic Training Seminar (1)
      - ATR6118L - Acute Care in Athletic Training Practice II (1)
      - ATR6619C - Athletic Training Research III (4)
      - ATR6855L - Practicum in Athletic Training V (4)

Comprehensive Examination
0 Total Credits

- Passing a comprehensive examination with a grade of 80 percent or better is a requirement for continued progress in the Master of Athletic Training degree. This examination will be given to every student at the end of the third semester (mid-point of the program). Students must take the exam at that time and will be allowed a maximum of three (3) attempts. Failure to pass the examination in 3 attempts will result in a review by the AT Program Progression and Retention Committee and may result in dismissal from the program. Students may not enroll in fourth-semester coursework until they have successfully completed the comprehensive examination.

Grand Total Credits: 65
Program Details

Equipment Fee
Students enrolled full-time in the Master of Athletic Training degree program pay an estimated Equipment Fee of $56 each semester they are enrolled.

Additional Program Costs
Current expenses for tuition fees and other university fees are listed on the UCF Student Accounts website (https://studentaccounts.ucf.edu/tf-graduate/). Additionally, several MAT courses include Material and Supply fees which are listed in the UCF Graduate Catalog. Students in the MAT program are also expected to pay for the following: nametags, CPR/First Aid/AED certification, appropriate clinical attire, transportation costs, and background checks/fingerprinting.

Independent Learning
All students in the Master of Athletic Training program are required to engage in independent learning, a process in which individuals take the initiative, with or without the help of others, to attain knowledge, skills, and professional behaviors. Activities such as case studies, critical analysis of literature, research/capstone projects, and clinical practica provide important independent learning experiences that give students ample opportunity to demonstrate and develop independent learning skills.

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Athletic Training MAT - Athletic Training MAT, UCF BS to UCF MAT Track

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy

Track Website
https://healthprofessions.ucf.edu/athletictraining

Track Handbook
Athletic Training MAT Handbook
Is this track available 100% online?

No

Licensure Disclosure

The program is fully accredited by the Commission on Accreditation of Athletic Training Education (CAATE) through 2026-27. For information on how this program may prepare students for professional licensure, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Master-of-Athletic-Training-June2020.pdf.

Track Description

The Master of Athletic Training (MAT) program is designed to enable students to demonstrate, in the classroom and during clinical experiences, that they have achieved levels of comprehension, competency, and proficiency expected of entry-level athletic trainers.

The program's classroom component is divided into two sections: athletic training theory and practice, and clinical experiences. The courses are designed to expose students to information through multiple didactic, laboratory, and clinical experiences. These courses incorporate the Curricular Content Standards set forth by the Commission on Accreditation of Athletic Training Education (CAATE).

All students are required to complete the curriculum in the established sequence of courses.

By combining excellence in teaching, the latest technologies available in education, and outstanding clinical site affiliations, graduates of the program are fully prepared to take and pass the comprehensive Board of Certification (BOC) exam and start their careers as athletic trainers.

Mission

The Master of Athletic Training program prepares graduates to advance the quality of healthcare provided to physically active people through interdisciplinary patient-centered education. The Program is committed to providing students with enriching didactic, clinical, and research experiences that foster communication, critical thinking, leadership, and collaboration. Graduates of the Program will understand the role of the athletic trainer as a member of the healthcare team and will advocate for the advancement of the profession.

Vision

The Master of Athletic Training program aspires to be a nationally recognized leader in athletic training education where diverse students, faculty, and preceptors advance healthcare through innovation in education, research, and clinical practice.

Values

The Master of Athletic Training program faculty values initiative, integrity, compassion, inclusion, and altruism.

The MAT degree program is a two-year full-time professional master's program. The courses are taken in a prescribed sequence over 6 semesters, including 18 credit hours of clinical practice. Clinical practice occurs under the direct supervision of a certified and licensed athletic trainer.
Track Prerequisites

This track and its application process should ONLY be used by students who hold or will earn a degree from UCF AND only intend to apply to the UCF Master of Athletic Training. An application through ATCAS is ONLY required for students holding a UCF bachelor's degree if they intend to apply to athletic training graduate programs at other institutions AND UCF.

Completion of prerequisite coursework outlined below with a minimum grade of “C” (2.0) is required. Candidates with all prerequisites completed at the time of application may be given preference over those still completing courses. Courses older than 10 years will not be accepted.

General Bio/Biology - A minimum of 4 credits (including a lab) for science majors - Biology courses for non-science majors and non-human biology courses are not acceptable.

Human Anatomy and Physiology - A minimum of 8 credits (including two labs) for science majors - Anatomy and physiology courses for non-science majors and non-human anatomy and physiology courses are not acceptable.

   Option 1: One semester of Human Anatomy with lab and one semester of Human Physiology with lab

   Option 2: Two semesters of Anatomy and Physiology combined courses with a lab each (A&P-I and A&P-II)

Statistics - A minimum of 3 credit hours

Human Nutrition /Clinical Nutrition - A minimum of 3 credit hours for science or health/medicine/nursing majors

General Psychology - A minimum of 3 credit hours - Any course taken within a psychology department/unit will be acceptable.

Exercise Physiology - A minimum of 3 credit hours

Biomechanics or Kinesiology - A minimum of 3 credit hours

General Chemistry/Chemistry I - A minimum of 4 credits (including a lab) for science majors

Physics I - A minimum of 4 credits (including a lab) for science majors

Application Requirements

This track and its application process should ONLY be used by students who hold or will earn a degree from UCF AND only intend to apply to the UCF Master of Athletic Training. An application through ATCAS is ONLY required for students holding a UCF bachelor's degree if they intend to apply to athletic training graduate programs at other institutions AND UCF.

Applicants must apply to UCF Graduate Admissions.

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog.

The following application materials must be received:

- Completed application including all documents required.
- One official transcript from each college/university attended (if those courses/credits are not already included in the UCF bachelor’s degree transcript).
  - The transcripts must demonstrate a minimum of a 3.0 overall GPA in undergraduate coursework and completion of prerequisite coursework with a minimum grade of "C" (2.0).
  - Candidates with all prerequisites completed at the time of application may be given preference over those still completing courses.
  - The bachelor’s degree may be in any discipline from an accredited institution recognized by UCF and may be in progress at the time of application. However, the degree must be awarded prior to the program’s start date in the Summer C semester (mid-May).
  - Applicants who have attended a college/university outside the United States must also provide a course-by-course credential evaluation with GPA calculation.
- Proof of 50 hours of observation of an athletic trainer (BOC certified) in a high school, collegiate, and/or professional sports setting.
- Three (3) letters of recommendation, including one from an athletic trainer.
- Complete a personal statement/essay about professional goals and the discipline of athletic training.

Incomplete applications will NOT be reviewed.

- An interview, by invitation only, may be required after the initial application review process is complete.
- Admission to the program is competitive. Meeting minimum requirements does not guarantee an applicant an interview or admission to the program.
- Admissions decisions will be made only once per academic year. Incoming students must begin the program in the summer C semester (mid-May).
- Admission to the MAT program is competitive and applications are reviewed as they are received beginning February 1. Students may continue to apply after February 1 and will be evaluated (rolling admissions) until seats are filled. The final deadline for applications is April 1.
### Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Athletic Training MAT</th>
<th><em>Fall Priority</em></th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
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<tr>
<td>Domestic Applicants</td>
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<tr>
<td>International Applicants</td>
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<td>Nov 1</td>
</tr>
</tbody>
</table>

#### Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

#### Graduate School Contact

**Grace Guilliams**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

#### Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

#### Institution Codes

- GRE: 5233  
- GMAT: RZT-HT-58  
- TOEFL: 5233  
- ETS PPI: 5233
Required Courses
65 Total Credits

- Complete all of the following
  - Summer 1 - Semester 1
    - Complete the following:
      - ATR5016 - Foundational Behaviors of Athletic Training Practice I (1)
      - ATR5106C - Prevention of Injury and Illness in Athletic Training Practice (2)
      - ATR5206C - Functional Human Anatomy for Athletic Trainers (3)
      - ATR5117C - Acute Care in Athletic Training Practice I (3)
  - Fall 1 - Semester 2
    - Complete the following:
      - ATR5017 - Foundational Behaviors of Athletic Training Practice II (1)
      - ATR5219C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice I (3)
      - ATR5306C - Therapeutic Interventions in Athletic Training Practice I (3)
      - ATR5406C - General Medical Conditions in Athletic Training Practice I (2)
      - ATR5617 - Athletic Training Research I (1)
      - ATR5815L - Practicum in Athletic Training I (2)
  - Spring 1 - Semester 3
    - Complete the following:
      - ATR5217C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice II (3)
      - ATR5307C - Therapeutic Interventions in Athletic Training Practice II (3)
      - ATR5516 - Healthcare Administration in Athletic Training Practice I (2)
      - ATR5825L - Practicum in Athletic Training II (2)
      - ATR6407C - General Medical Conditions in Athletic Training Practice II (2)
  - Summer 2 - Semester 4
    - Complete the following:
      - ATR6218C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice III (3)
      - ATR6308C - Therapeutic Interventions in Athletic Training Practice III (3)
      - ATR6618C - Athletic Training Research II (1)
      - ATR6835L - Practicum in Athletic Training III (1)
  - Fall 2 - Semester 5
    - Complete the following:
      - ATR6309C - Therapeutic Interventions in Athletic Training Practice IV (3)
      - ATR6845L - Practicum in Athletic Training IV (9)
  - Spring 2 - Semester 6
    - Complete the following:
      - ATR6517 - Healthcare Administration in Athletic Training Practice II (2)
      - ATR6505 - Athletic Training Seminar (1)
      - ATR6118L - Acute Care in Athletic Training Practice II (1)
      - ATR6619C - Athletic Training Research III (4)
      - ATR6855L - Practicum in Athletic Training V (4)

Comprehensive Exam
0 Total Credits

- Passing a comprehensive examination with a grade of 80 percent or better is a requirement for continued progress in the Master of Athletic Training degree. This examination will be given to every student at the end of the third semester (mid-point of the program). Students must take the exam at that time and will be allowed a maximum of three (3) attempts. Failure to pass the examination in 3 attempts will result in a review by the AT Program Progression and Retention Committee and may result in dismissal from the program. Students may not enroll in fourth-semester coursework until they have successfully completed the comprehensive examination.

Grand Total Credits: 65
Track Details

Equipment Fee

Students enrolled full-time in the Master of Athletic Training degree program pay an estimated Equipment Fee of $56 each semester they are enrolled.

Additional Program Costs

Current expenses for tuition fees and other university fees are listed on the UCF Student Accounts website (https://studentaccounts.ucf.edu/tf-graduate/). Additionally, several MAT courses include Material and Supply fees which are listed in the UCF Graduate Catalog. Students in the MAT program are also expected to pay for the following: nametags, CPR/First Aid/AED certification, appropriate clinical attire, transportation costs, and background checks/fingerprinting.

Independent Learning

All students in the Master of Athletic Training program are required to engage in independent learning, a process in which individuals take the initiative, with or without the help of others, to attain knowledge, skills, and professional behaviors. Activities such as case studies, critical analysis of literature, research/capstone projects, and clinical practica provide important independent learning experiences that give students ample opportunity to demonstrate and develop independent learning skills.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Communication Sciences and Disorders MA

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Program Website
https://healthprofessions.ucf.edu/csd/masters/

Program Handbook
Communication Sciences and Disorders Handbook

Program Contact Information
Jacqueline Towson, PhD
Associate Professor
csdgraduate@ucf.edu
Telephone: 407-823-4798
HS 101
Is this program available 100% online?

No

Licensure Disclosure

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Communication-Sciences-Disorders-MA.pdf.

Program Description

The School of Communication Sciences and Disorders offers three plans of study leading to the Master of Arts degree: the Traditional, Consortium and Accelerated programs.

Each track is intended for those interested in working with children and adults who have communication disorders and is based on the same curriculum and degree requirements but allows students to follow different plans of study. Students enrolled in each track must follow a prescribed sequence of academic and clinical courses.

Each track provides academic and clinical education experiences necessary for certification by the American Speech-Language-Hearing Association (ASHA) and the Florida Department of Education, and licensure by the state of Florida. For information on how this program may prepare students for professional licensure, please visit https://healthprofessions.ucf.edu/csd/masters/. The Council on Academic Accreditation (CAA) of the ASHA has accredited the Master of Arts Degree in Communication Sciences and Disorders since 1986.

The Communication Sciences and Disorders program strives to educate students to become successful practitioners in the field of speech-language pathology. To that end, the ASHA Code of Ethics is re-enforced throughout the academic curriculum. Students who violate the ASHA Code of Ethics may be subject to academic sanctions or dismissed from the program.

The Traditional track is a two-year, full-time face-to-face program (six consecutive semesters, including two summers) for students with undergraduate degrees in communication sciences and disorders or speech-language pathology and audiology. For students with undergraduate degrees in other majors (out-of-field), the program requires additional prerequisite coursework. Students must begin the program in the semester for which they are admitted and must enroll full-time each semester.

The Consortium track is a cooperative effort between the UCF School of Communication Sciences and Disorders and the Central Florida Public School Consortium to address the critical shortage of public school speech-language pathologists in the area. Participating school districts in the Central Florida Consortium are Brevard, Citrus, Flagler, Lake, Marion, Orange, Osceola, Seminole, Sumter, and Volusia.

The Accelerated track enables highly qualified current UCF undergraduate majors in communication sciences and disorders to achieve a master's degree in the UCF School of Communication Sciences and Disorders graduate program in one less semester than students in the Traditional track. This program is a BA/BS to MA program. Students are able to enroll in graduate-level courses while completing the bachelor's degree.

Please scroll to the bottom of this page for further details on these Tracks.

Program Prerequisites

- Applicants need to be certified to practice by the American Speech-Language-Hearing Association (ASHA), all students must have undergraduate transcript credit, which could include course work, advanced placement, CLEP, or examination equivalency, for each of the following areas: biological sciences, physical sciences, social/behavioral sciences, and statistics. Courses may consist of any number of credits and must be taken outside the discipline.
- All students must complete at least 3 credit hours in statistics with a grade of "C" or better. Undergraduate or graduate course work in statistics is a prerequisite to SPA 6805 - Research in Communicative Disorders.
- The program admits qualified in-field applicants, with an undergraduate degree in communication sciences and disorders or speech-language pathology and audiology, and out-of-field applicants, with undergraduate degrees in other majors. Out-of-field students require an additional 21 to 27 credit hours of prerequisite course work that may be completed in approximately two semesters once admitted.

Out-of-field students must complete the following undergraduate prerequisite courses or their equivalents once admitted:

- STA 2014 - Principles of Statistics 3 Credit Hours or
- STA 2023 - Statistical Methods 1 3 credit hours
- LIN 3716/3716L - Language Development and Lab 5 Credit Hours
- SPA 3101 - Physiological Bases of Speech and Hearing 3 Credit Hours
- SPA 3104 - Neural Bases of Communication 3 Credit Hours
- SPA 3112C - Basic Phonetics and Lab 4 Credit Hours
- SPA 3011 - Speech Science 3 Credit Hours
- SPA 4032 - Audiology 3 Credit Hours
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Master of Arts in Communication Sciences and Disorders program at UCF participates in the Communication Sciences and Disorders Centralized Application Service, known as CSDCAS. Prospective students applying to the Communication Sciences and Disorders MA program at UCF must apply online using the CSDCAS application in addition to the UCF online application. To learn more about the CSDCAS application process, visit http://www.capcsd.org/csdcas-student-page/

Step 1: Complete the CSDCAS application for the UCF program

- Complete CSDCAS Application (https://csdcas.liaisoncas.com/applicant-ux/#/login)
- One official transcript (in a sealed envelope) from each college/university attended. Transcripts must be sent directly to CSDCAS.
- Official, competitive GRE score (verbal, quantitative, and written) obtained within the last five years. Use GRE CODE for UCF CSDCAS: 7407. (Do not use the "Institution Code" for GRE listed to the right).
- Three (3) letters of recommendation with CSDCAS recommendation forms, preferably two from current or former faculty members. Letters of recommendation cannot be dated more than one year prior to the date of the application deadline.
- A letter of intent describing educational background, professional experiences, future goals, interest in the field, why you want to attend UCF, other related information about your qualifications, and how you will embody and uphold the ASHA Code of Ethics (http://www.asha.org/code-of-ethics/) in your professional career.
- A current resume.
- All CSDCAS supplemental questions. Question can be found on CSDCAS application.
- UCF Graduate Application (supplemental) must be submitted by the deadline in addition to CSDCAS application.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

All international students must meet university minimum TOEFL score requirements regardless of language in which the undergraduate program was completed.

Incomplete applications will NOT be reviewed.

All application materials MUST be sent directly to CSDCAS. Materials sent to the university or program and not to CSDCAS will not be accepted. Application materials must be received by CSDCAS no later than October 1st for Spring admission and February 1st for Fall admission.

Students are responsible for their CSDCAS application being complete and verified. FAQ's on starting your CSDCAS application can be found here: https://help.liaisonedu.com/CSDCAS_Applicant_Help_Center/Starting_Your_CSDCAS_Application

Step 2: Complete University of Central Florida’s Graduate School application

In addition to your CSDCAS application, applicants must also submit a UCF application for graduate admission at https://application.graduate.ucf.edu/. Supporting documents (i.e. transcripts, test scores, etc.) do not need to be submitted to UCF directly. University applications must also be submitted by the stated application deadlines.

Admission to the Communication Sciences and Disorders program is granted on a competitive basis. Approximately thirty-five to forty-five (35-45) students are admitted each semester. Meeting the minimum admission requirements does not guarantee admission to the program. The recent class statistics are listed on the Graduate Program Profile webpage. Additionally, the program reserves the right to deny admission or dismiss a student after admission to the program if, in the judgment of the faculty, the student fails to demonstrate and/or uphold the ASHA Code of Ethics (http://www.asha.org/code-of-ethics/) during coursework and/or practice in the field.

Graduate Application Deadlines

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<thead>
<tr>
<th>Communication Sciences and Disorders MA</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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<td>Domestic Applicants</td>
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<td>International Applicants</td>
<td>Dec 1</td>
<td>Dec 1</td>
<td>Sep 1</td>
<td></td>
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</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
**Graduate School Contact**

**Grace Guilliams**
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

**Mailing Address**
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
38 Total Credits

- Complete the following:
  - SPA6204 - Articulation/Phonological Dis (3)
  - SPA6211C - Voice Disorders (4)
  - SPA6225C - Fluency Disorders (4)
  - SPA6236 - Motor Speech Disorders in Adults and Children (3)
  - SPA6327 - Aural Habilitation Rehab (3)
  - SPA6410 - Aphasias and Related Disorders (3)
  - SPA6474 - Assessment and Management of Culturally and Linguistically Diverse Populations (3)
  - SPA6541 - Assessment of Language Disorders in Children and Adolescents (3)
  - SPA6542 - Intervention of Language Disorders in Children and Adolescents (3)
  - SPA6559 - Augmentative and Alternative Communication (3)
  - SPA6565 - Feeding and Swallowing Disorders (3)
  - SPA6805 - Research in Communicative Disorders (3)

Clinical Practice
25 Total Credits

- Complete all of the following
  - Complete the following:
    - SPA6551 - Foundations of Clinical Practice: Level I (1)
    - SPA6503 - Foundations of Clinical Practice Level II (1)
    - SPA6503L - Found Clinic Practice-II APP (1)
    - SPA6553L - Clinical Practice in Differential Diagnosis in Speech and Language Pathology (1)
    - SPA6563L - Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia (1)
    - SPA6942 - Foundations of Clinical Practice: Level III (1)
    - SPA6942L - Found Clinic Practice-III APP (1)
    - SPA6943C - Clinical Practice Level I (3)
  - Earn at least 2 credits from the following types of courses:
    Students are required to take both SPA 6503L and SPA 6942L twice.
  - Earn at least 3 credits from the following types of courses:
    SPA 6946 - Clinical Practice: Level II
  - Earn at least 10 credits from the following types of courses:
    SPA 6946 - Clinical Practice: Level III
  - Supervised clinical practice is an integral part of the graduate program in Communication Sciences and Disorders. It provides students with an opportunity to apply classroom knowledge to the evaluation and management of individuals with a wide variety of communication disorders. Students complete three clinical practica at the UCF Communication Disorders Clinic and other affiliated facilities, as well as external rotations in schools, hospitals, rehabilitation centers, skilled nursing facilities, long-term care facilities, community clinics, and private practices. Through these practica and external rotations, students obtain a minimum of 400 clock hours of supervised clinical experience in accordance with the guidelines outlined by the American Speech-Language-Hearing Association (ASHA). Clinical practica and external rotations vary in length and do not always coincide with the academic calendar.

Thesis/Nonthesis Option
9 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        SPA 6971 - Thesis
      - Earn at least 3 credits from the following types of courses:
        Elective course selected in consultation with Faculty advisor.
      - Thesis hours cannot be counted toward graduation requirements if students fail to complete or successfully defend their thesis. For additional information, thesis students and their advisory committees should refer to the thesis requirements in the UCF Graduate Catalog.
    - Nonthesis Option
      - Earn at least 9 credits from the following types of courses:
        Elective courses selected in consultation with Faculty advisor.

Comprehensive Examination
0 Total Credits

- Passing a School Comprehensive Examination is a requirement for completion of the master’s degree in Communication Sciences and Disorders.

Grand Total Credits: 72
Program Details

Equipment Fee

Students in the Communication Sciences and Disorders MA Program pay a $90 equipment fee each semester they are enrolled.

Additional Program Costs

The program requires students to pay additional fees for the required background checks, clinic uniform, and registration for the academic/clinical competencies tracking system.

Sample Plan of Study for the Traditional Program

The Traditional MA program requires a prescribed sequence of academic and clinical courses which may vary according to the semester of entry. The following is a sample plan of study.

Semester 1

- SPA 6204 - Articulation/Phonological Dis 3 Credit Hours
- SPA 6541 - Assessment of Language Disorders in Children and Adolescents 3 Credit Hours
- SPA 6542 - Intervention of Language Disorders in Children and Adolescents 3 Credit Hours
- SPA 6805 - Research in Communicative Disorders 3 Credit Hours
- SPA 6551 - Foundations of Clinical Practice: Level I 1 Credit Hours

Semester 2

- SPA 6225C - Fluency Disorders 4 Credit Hours
- SPA 6410 - Aphasia and Related Disorders 3 Credit Hours
- SPA 6559 - Augmentative and Alternative Communication 3 Credit Hours
- SPA 6503 - Foundations of Clinical Practice Level II 1 Credit Hours
- SPA 6503L - Found Clinic Practice-II APP 1 Credit Hours (X 2)

Semester 3

- SPA 6211C - Voice Disorders 4 Credit Hours
- SPA 6327 - Aural Habilitation Rehab 3 Credit Hours
- SPA 6565 - Feeding and Swallowing Disorders 3 Credit Hours
- SPA 6942 - Foundations of Clinical Practice: Level III 1 Credit Hours
- SPA 6942L - Found Clinic Practice-III APP 1 Credit Hours (X 2)
- SPA 6553L - Clinical Practice in Differential Diagnosis in Speech and Language Pathology 1 Credit Hours

Semester 4

- SPA 6236 - Motor Speech Disorders in Adults and Children 3 Credit Hours
- SPA 6474 - Assessment and Management of Culturally and Linguistically Diverse Populations 3 Credit Hours
- SPA 6943C - Clinical Practice Level I 3 Credit Hours
- Elective 3 Credit Hours
- SPA 6563L - Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia 1 Credit Hours

Semester 5

- SPA 6946 - Clinical Practice: Level II 3 Credit Hours
- Elective 3 Credit Hours
- Elective 3 Credit Hours

Semester 6

- SPA 6946 - Clinical Practice: Level III 10 Credit Hours

Independent Learning

All students in the Master of Arts in Communication Sciences and Disorders program engage in independent learning through inquiry, dialogue, and practice. Experiences such as client case studies, scholarly reviews, research projects, clinical practica and external rotations provide students independent learning opportunities to attain knowledge, skills, and professional behaviors. In capstone external rotations, students bridge university classroom and clinic lessons to real-world educational and health-related settings.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Communication Sciences and Disorders MA - Communication Sciences and Disorders MA, Accelerated BA/BS to MA Track

College

College of Health Professions and Sciences

Department

School of Communication Sciences and Disorders

Track Website

https://healthprofessions.ucf.edu/csd/masters/

Track Handbook

Communication Sciences and Disorders Handbook

Track Contact Information

Jacqueline Towson, PhD
Associate Professor
csdgraduate@ucf.edu
Telephone: 407-823-4798
HS 101

Is this track available 100% online?

No

Licensure Disclosure

For information on how this program may prepare students for professional licensure, please visit https://healthprofessions.ucf.edu/csd/masters/.

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Communication-Sciences-Disorders-MA.pdf.
**Track Description**

The School of Communication Sciences and Disorders offers an Accelerated BA/BS to MA Track for highly qualified UCF undergraduate majors in communication sciences and disorders that enables them to complete a master's degree in one less semester than students in the Traditional Track.

The program is intended for those interested in working with children and adults who have communication disorders. Once students complete the BA/BS, they must apply and be admitted to the master's degree program and follow a prescribed sequence of academic and clinical courses.

The Communication Sciences and Disorders program strives to educate students to become successful practitioners in the field of speech-language pathology. To that end, the American Speech-Language-Hearing Association (ASHA) Code of Ethics is re-enforced throughout the academic curriculum. Students who violate the ASHA Code of Ethics may be subject to academic sanctions or dismissed from the program.

**Track Prerequisites**

Undergraduate students enroll in up to 16 credit hours of graduate-level courses while completing the bachelor's degree. This enables students to achieve a master's degree in the UCF School of Communication Sciences and Disorders in one less semester.

Up to 16 credit hours of approved 6000-level courses, with grades of "B" (3.0) or better, may be counted toward the BA/BS and MA degrees. Additional requirements include:

- Adopting the most current catalog for students changing degree programs.
- Earning at least a "B" (3.0) in each undergraduate and graduate course to be counted toward the major.
- Being assessed tuition and fees at the graduate rate for graduate courses.

**Undergraduate Requirements**

The Shared Courses below may be used to replace:

- SPA 4400 Language Disorders Across the Life Span
- SPA 4476 Speech Disorders Across the Life Span
- SPA 4478 Multicultural Aspects of Communication Disorders and Differences
- SPA 4803 Research Methods in Communication Sciences and Disorders
- SPA 4870 Capstone Course
- one restricted elective in the undergraduate curriculum

**Shared Courses**

The following is a list of graduate courses that may be used to fulfill degree requirements for both the undergraduate and graduate programs.

- SPA 6204 - Articulation/Phonological Disorders 3 Credit Hours
- SPA 6410 - Aphasia and Related Disorders 3 Credit Hours
- SPA 6551 - Foundations of Clinical Practice: Level I 1 Credit Hours
- SPA 6805 - Research in Communicative Disorders 3 Credit Hours
- SPA 6541 - Assessment of Language Disorders in Children and Adolescents 3 Credit Hours
- SPA 6542 - Intervention of Language Disorders in Children and Adolescents 3 Credit Hours
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Accelerated B.A./B.S. to M.A. track in Communication Sciences and Disorders allows highly qualified University of Central Florida undergraduate majors in Communication Sciences and Disorders to begin taking graduate level courses that will count toward their master's degree while completing their baccalaureate degree program. Students apply for admission to the Accelerated Track either in the last semester of their sophomore year or the first semester of their junior year.

To be considered to the Accelerated B.A./B.S. to M.A. track, applicants must submit a hard copy (paper) application for the bachelor's program directly to the School of Communication Sciences and Disorders. Please contact the school for the appropriate application form and additional documents required.

Following acceptance to the Accelerated B.A./B.S. to M.A. track, an electronic application for admission to the graduate program must be submitted by the application deadline, normally during the senior year of the bachelor's program.

When completing the graduate application, student will follow general UCF graduate application requirements. Applicants to this program must also provide:

- Completed CSDCAS Application (https://csdcas.liaisoncas.com/applicant-ux/#/login)
- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score (verbal, quantitative, and written) obtained within the last five years. Use GRE CODE for UCF CSDCAS: 7407. (Do not use the "Institution Code" for GRE listed to the right).
- Three (3) letters of recommendation with CSDCAS recommendation forms, preferably two from current or former faculty members. Letters of recommendation cannot be dated more than one year prior to the date of the application deadline.
- A current résumé.
- A letter of intent describing educational background, professional experiences, future goals, interest in the field, why you want to attend UCF, other related information about your qualifications, and how you will embody and uphold the ASHA Code of Ethics (http://www.asha.org/code-of-ethics/) in your professional career.
- All CSDCAS supplemental questions. Question can be found on CSDCAS application.
- UCF Graduate Application (supplemental) must be submitted by the deadline in addition to CSDCAS application.

A formal admission decision for the master's program will be made following receipt of the graduate application. Successful completion of the bachelor's degree does not guarantee admission to the master's program. The Communication Sciences and Disorders program reserves the right to deny admission or dismiss a student after admission to the program if, in the judgment of the faculty, the student fails to demonstrate and/or uphold the ASHA Code of Ethics (http://www.asha.org/code-of-ethics/) in coursework or practice in the field. A background check is required for all new students during their first semester in the master's program.

Graduate Application Deadlines

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<th>Accelerated BA/BS to MA</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<td>Domestic Applicants</td>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

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gradadmissions@ucf.edu
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Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
38 Total Credits

- Complete the following:
  - SPA6204 - Articulation/Phonological Dis (3)
  - SPA6211C - Voice Disorders (4)
  - SPA6225C - Fluency Disorders (4)
  - SPA6236 - Motor Speech Disorders in Adults and Children (3)
  - SPA6327 - Aural Habilitation Rehab (3)
  - SPA6410 - Aphasia and Related Disorders (3)
  - SPA6474 - Assessment and Management of Culturally and Linguistically Diverse Populations (3)
  - SPA6559 - Augmentative and Alternative Communication (3)
  - SPA6565 - Feeding and Swallowing Disorders (3)
  - SPA6580 - Research in Communicative Disorders (3)
  - SPA6541 - Assessment of Language Disorders in Children and Adolescents (3)
  - SPA6542 - Intervention of Language Disorders in Children and Adolescents (3)

Clinical Practice
25 Total Credits

- Complete all of the following
  - Complete the following:
    - SPA6551 - Foundations of Clinical Practice: Level I (1)
    - SPA6503 - Foundations of Clinical Practice Level II (1)
    - SPA6503L - Found Clinic Practice-II APP (1)
    - SPA6533L - Clinical Practice in Differential Diagnosis in Speech and Language Pathology (1)
    - SPA6563L - Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia (1)
    - SPA6563L - Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia (1)
    - SPA6942L - Found Clinic Practice-III APP (1)
    - SPA6943C - Clinical Practice Level I (3)
  - Earn at least 2 credits from the following types of courses:
    - Students will repeat SPA 6503L and SPA 6942L twice.
  - Earn at least 3 credits from the following types of courses:
    - SPA 6946 - Clinical Practice: Level II
  - Earn at least 10 credits from the following types of courses:
    - SPA 6946 - Clinical Practice: Level III
  - Supervised clinical practice is an integral part of the graduate program in Communication Sciences and Disorders. It provides students with an opportunity to apply classroom knowledge to the evaluation and management of individuals with a wide variety of communication disorders. Students complete three clinical practica at the UCF Communication Disorders Clinic and other affiliated facilities, as well as external rotations in schools, hospitals, rehabilitation centers, skilled nursing facilities, long-term care facilities, community clinics, and private practices. Through these practica and external rotations, students obtain a minimum of 400 clock hours of supervised clinical experience in accordance with the guidelines outlined by the American Speech-Language-Hearing Association (ASHA). Clinical practica and external rotations vary in length and do not always coincide with the academic calendar.

Thesis/Nonthesis Option
9 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        - SPA 6971 - Thesis
      - Earn at least 3 credits from the following types of courses:
        - Select one 3 credit hour elective course in consultation with Faculty Advisor.
      - Thesis hours cannot be counted toward graduation requirements if students fail to complete or successfully defend their thesis. For additional information, thesis students and their advisory committees should refer to the thesis requirements in the UCF Graduate Catalog.
  - Nonthesis Option
    - Earn at least 9 credits from the following types of courses:
      - Students will work with Faculty advisor to choose 3 electives to complete this requirement.

Comprehensive Examination
0 Total Credits

- Passing a School Comprehensive Examination is a requirement for completion of the master's degree in Communication Sciences and Disorders.

Grand Total Credits: 72
Track Details

Equipment Fee
Students in the Communication Sciences and Disorders MA Program pay a $90 equipment fee each semester they are enrolled.

Additional Program Cost
The program requires students to pay additional fees for the required background checks, clinic uniform, and registration for the academic/clinical competencies tracking system.

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Communication Sciences and Disorders MA - Communication Sciences and Disorders MA, Consortium Track

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Track Website
https://healthprofessions.ucf.edu/csd/masters/

Track Handbook
Communication Sciences and Disorders Handbook

Track Contact Information
Linda I. Rosa-Lugo, EdD
Associate Professor
csdgraduate@ucf.edu
Telephone: 407-823-4798
HS2 101

Is this track available 100% online?
No

Licensure Disclosure
This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Communication-Sciences-Disorders-MA.pdf.
Track Description

The School of Communication Sciences and Disorders offers the Consortium track leading to the Master of Arts in Communication Sciences and Disorders.

The Consortium track is designed specifically for students with a bachelor's degree in communication sciences and disorders or speech-language pathology and audiology who currently work in participating central Florida public school districts and have been providing speech and language services for at least one semester prior to application.

The goal of this program is to address the critical shortage of public-school speech-language pathologists. It represents a cooperative effort between the UCF School of Communication Sciences and Disorders and the Central Florida Public School Consortium. Participating school districts in the Central Florida Consortium are Brevard, Citrus, Flagler, Lake, Marion, Orange, Osceola, Seminole, Sumter, and Volusia.

The Communication Sciences and Disorders program strives to educate students to become successful practitioners in the field of speech-language pathology. To that end, the American Speech-Language-Hearing Association (ASHA) Code of Ethics is re-enforced throughout the academic curriculum. Students who violate the ASHA Code of Ethics may be subject to academic sanctions or dismissed from the program.

Track Prerequisites

All students must complete at least 3 credit hours in statistics with a grade of "C" or better. Undergraduate course work in statistics is a prerequisite to SPA 6805 - Research in Communicative Disorders.

To be certified to practice by the American Speech-Language-Hearing Association (ASHA), all students must have undergraduate transcript credit, which could include course work, advanced placement, CLEP, or examination equivalency, for each of the following areas: biological sciences, physical sciences, social/behavioral sciences, and statistics. Courses may consist of any number of credits and must be taken outside the discipline.
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Master of Arts in Communication Sciences and Disorders program at UCF participates in the Communication Sciences and Disorders Centralized Application Service, known as CSDCAS. Prospective students applying to the Communication Sciences and Disorders MA program must apply online using the CSDCAS application in addition to the UCF online application. To learn more about the CSDCAS application process, visit http://www.capcsd.org/csdcas-student-page/

**Entry Terms:** The Consortium track admits for spring term only. Please note that admission is granted for the spring term only and for this specific track. **Applicants may not change start terms or tracks after an admission decision has been made.** If the applicant determines that they cannot accept the offer of admission as presented in the admission letter, they must rescind the offer and may apply to the desired track in the next admissions cycle.

**Step 1: Complete the CSDCAS application for UCF**

Completed CSDCAS Application (https://csdcas liaisoncas.com/applicant-ux/#/login)

One official transcript (in a sealed envelope) from each college/university attended.

Official, competitive GRE score (verbal, quantitative, and written) obtained within the last five years. Use **GRE CODE for UCF CSDCAS: 7407**. (Do not use the “Institution Code” for GRE listed to the right side of this page).

Three (3) letters of recommendation with CSDCAS recommendation forms. One of the three letters of recommendation must be from the district school administrator or program specialist of the Speech-Language Program of the employing school district, one from the school principal, and one from a former professor. Letters of recommendation cannot be dated more than one year prior to the date of the application deadline.

A letter of intent describing educational background, professional experiences, future goals, and how you will embody and uphold the ASHA Code of Ethics (http://www.asha.org/code-of-ethics/) in your professional career

A current resume.

All CSDCAS supplemental questions. Question can be found on CSDCAS application.

UCF Graduate Application (supplemental) must be submitted by the deadline in addition to CSDCAS application.

Incomplete applications will NOT be reviewed.

All application materials MUST be sent directly to CSDCAS. Materials sent to the university or program will not be accepted. Application materials must be received by CSDCAS no later than February 1st for Summer admission.

**Step 2: Complete University of Central Florida’s Graduate School application**

In addition to the CSDCAS application, applicants must also submit a UCF application for graduate admission at https://application.graduate.ucf.edu/. Supporting documents (i.e. transcripts, test scores, etc.) do not need to be submitted to UCF directly. University applications must also be submitted by the stated application deadlines.

Admission to the Communication Sciences and Disorders program is granted on a competitive basis. Approximately thirty-five to forty-five (35-45) students are admitted each semester. Meeting the minimum admission requirements does not guarantee admission to the program. The recent class statistics are listed on the Graduate Program Profile webpage. Additionally, the program reserves the right to deny admission or dismiss a student after admission to the program if, in the judgment of the faculty, the student fails to demonstrate and/or uphold the ASHA Code of Ethics (http://www.asha.org/code-of-ethics/) during coursework and/or practice in the field. A background check is required for all new students during their first semester in the program. All applicants and admitted students must perform certain Essential Functions in order to participate and complete program requirements.

**Graduate Application Deadlines**

<table>
<thead>
<tr>
<th>Communication Sciences and Disorders Consortium</th>
<th><em>Fall Priority</em></th>
<th>Fall</th>
<th>Spring</th>
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<td>International Applicants</td>
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</tbody>
</table>

**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
Graduate School Contact
Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
38 Total Credits

- Complete the following:
  - SPA6204 - Articulation/Phonological Dis (3)
  - SPA6211C - Voice Disorders (4)
  - SPA6225C - Fluency Disorders (4)
  - SPA6236 - Motor Speech Disorders in Adults and Children (3)
  - SPA6327 - Aural Habilitation Rehab (3)
  - SPA6410 - Aphasia and Related Disorders (3)
  - SPA6474 - Assessment and Management of Culturally and Linguistically Diverse Populations (3)
  - SPA6559 - Augmentative and Alternative Communication (3)
  - SPA6565 - Feeding and Swallowing Disorders (3)
  - SPA6805 - Research in Communicative Disorders (3)
  - SPA6541 - Assessment of Language Disorders in Children and Adolescents (3)
  - SPA6542 - Intervention of Language Disorders in Children and Adolescents (3)

Clinical Practice
25 Total Credits

- Complete all of the following
  - Complete the following:
    - SPA6551 - Foundations of Clinical Practice: Level I (1)
    - SPA6503 - Foundations of Clinical Practice Level II (1)
    - SPA6503L - Found Clinic Practice-II APP (1)
    - SPA6553L - Clinical Practice in Differential Diagnosis in Speech and Language Pathology (1)
    - SPA6563L - Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia (1)
    - SPA6942L - Found Clinic Practice-III APP (1)
    - SPA6942L - Found Clinic Practice-III APP (1)
    - SPA6943C - Clinical Practice Level I (3)

  - Earn at least 2 credits from the following types of courses:
    Students will repeat SPA 6503L and SPA 6942L twice.
  - Earn at least 3 credits from the following types of courses:
    SPA 6946 - Clinical Practice: Level II
  - Earn at least 10 credits from the following types of courses:
    SPA 6946 - Clinical Practice: Level III

- Supervised clinical practice is an integral part of the graduate program in communication sciences and disorders. It provides students with an opportunity to apply classroom knowledge to the evaluation and management of individuals with a wide variety of communication disorders. Students complete three clinical practica at the UCF Communication Disorders Clinic and other affiliated facilities, as well as external rotations in schools, hospitals, rehabilitation centers, skilled nursing facilities, long-term care facilities, community clinics, and private practices. Through these practica and external rotations, students obtain a minimum of 400 clock hours of supervised clinical experience in accordance with the guidelines outlined by the American Speech-Language-Hearing Association (ASHA). Clinical practica and external rotations vary in length and do not always coincide with the academic calendar.

Thesis/Nonthesis Option
9 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        SPA 6971 - Thesis
      - Earn at least 3 credits from the following types of courses:
        1 Elective course selected in consultation with Faculty advisor.
      - Thesis hours cannot be counted toward graduation requirements if students fail to complete or successfully defend the thesis. For additional information, thesis students and their advisory committees should refer to the thesis requirements in the UCF Graduate Catalog.
    - Nonthesis Option
      - Earn at least 9 credits from the following types of courses:
        Appropriate electives selected in consultation with Faculty advisor.

Comprehensive Examination
0 Total Credits

- Passing a School Comprehensive Examination is a requirement for completion of the master's degree in Communication Sciences and Disorders.

Grand Total Credits: 72
Track Details
Consortium track students typically complete one external rotation outside of the school setting. The second external rotation must be completed in a school setting that is different from the practitioner's primary employment setting.

Equipment Fee
Students in the Communication Sciences and Disorders MA Program pay a $90 equipment fee each semester that they are enrolled.

Additional Program Costs
The program requires students to pay additional fees for the required background checks, clinic uniform, and registration for the academic/clinical competencies tracking system.

Independent Learning
All students in the Master of Arts in communication sciences and disorders program engage in independent learning through inquiry, dialogue, and practice. Experiences such as client case studies, scholarly reviews, research projects, clinical practica and external rotations provide students independent learning opportunities to attain knowledge, skills and professional behaviors. In capstone external rotations, students bridge university classroom and clinic lessons to real-world educational and health-related settings.

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Milkcan Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Kinesiology MS

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy

Program Website
https://healthprofessions.ucf.edu/kinesiology/

Program Handbook
Kinesiology Handbook
Program Contact Information

David Fukuda PhD
Associate Professor
david.fukuda@ucf.edu
Telephone: 407-823-0442
ED 320R

Lana Gidusko
lana.gidusko@ucf.edu
407-823-2595
EDU 320

Is this program available 100% online?
No

Program Description

The Master of Science in Kinesiology provides an in-depth study of applied human physiology and how it relates to exercise, athletic performance and health and wellness across the lifespan.

The Master of Science in Kinesiology offers Non-Thesis options, a Thesis option, and an Anatomical Sciences Specialization for students. All options require a minimum of 36 credit hours, with at least 18 credit hours of coursework at the 6000 level. All students are automatically placed in the Non-Thesis option. Students wishing to pursue the Thesis option must receive approval from the graduate program director and have a commitment from a faculty member to serve as the thesis committee chair. Due to limited enrollment, students wishing to pursue the Anatomical Sciences Specialization must also receive approval from the graduate program director.

Students in the Non-Thesis option are required to participate in a practicum APK 6946 that will serve as their culminating graduate experience or take an independent learning experience ( PET 6910 - Problem Analysis - Review of Literature ) that involves a detailed literature review specific to a subject area of the student's interest under the supervision of graduate faculty.

The Anatomical Sciences Specialization provides a depth of understanding of the anatomical sciences and substantial hands-on experience in the gross anatomy laboratory. Students interested in pursuing the Anatomical Sciences Graduate Certificate (https://healthprofessions.ucf.edu/physicaltherapy/anatomical-sciences/) must gain admission to the certificate program and complete the specified electives, which may be substituted for elective courses listed below.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Personal statement discussing reasons for selecting the Kinesiology degree program, career goals, and how this degree will support the stated career goals.
- Two letters of recommendation from previous faculty or supervisors who can speak to the applicant's abilities to be successful in graduate school.
- Résumé or curriculum vitae (CV).
- Video Essay
- While not required, applicants are encouraged to submit official GRE scores taken within the last five years for potential consideration for fellowships, scholarships, and assistantships.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Kinesiology MS</th>
<th><em>Fall Priority</em></th>
<th>Fall</th>
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</thead>
<tbody>
<tr>
<td>Domestic Applicants</td>
<td>Jan 15</td>
<td>Jul 1</td>
</tr>
<tr>
<td>International Applicants</td>
<td>Jan 15</td>
<td>Jan 15</td>
</tr>
</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
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Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - APK6713 - Research Methods in Kinesiology (3)
  - PET5355 - Exercise Physiology I (3)
  - PET6389 - Exercise Physiology II (3)
  - PET6515 - Assessment and Evaluation in Kinesiology (3)

Thesis/Nonthesis Option
24 Total Credits

- Complete 1 of the following
  Nonthesis Route
    - Complete 1 of the following
      Nonthesis Option 1
        - Complete all of the following
          Earn at least 3 credits from the following types of courses:
          APK 6946 - Practicum, Clinical Practice
          Earn at least 21 credits from the following:
            - APK6703 - Statistical Methods in Kinesiology (3)
            - PET6096 - Youth Physical and Athletic Development (3)
            - PET6335 - Functional Anatomy and Kinesiology (3)
            - PET6357C - Environmental Perturbation and Human Performance (3)
            - PET6363 - Dietary and Nutritional Supplementation for Athletic Performance (3)
            - PET6366 - Exercise, Nutrition and Weight Control (3)
            - PET6372 - Physical Activity and Nutritional Epidemiology (3)
            - PET6376 - Sport Nutrition (3)
            - PET6381 - Physiology of Neuromuscular Mechanisms (3)
            - PET6388 - Cardiovascular Physiology (3)
            - PET6395 - Program Design in Strength and Conditioning (3)
            - PET6521 - Exercise Physiology Instrumentation (3)
            - PET6690 - Exercise Prescription for Special Populations (3)
            - PET7387 - Exercise Endocrinology (3)

        - All electives are selected in conjunction with the student’s graduate advisor or the graduate coordinator.

  Nonthesis Option 2
    - Complete all of the following
      Complete the following:
      PET6910 - Problem Analysis - Review of Literature (3)
      Earn at least 21 credits from the following:
        - APK6703 - Statistical Methods in Kinesiology (3)
        - PET6096 - Youth Physical and Athletic Development (3)
        - PET6335 - Functional Anatomy and Kinesiology (3)
        - PET6357C - Environmental Perturbation and Human Performance (3)
        - PET6363 - Dietary and Nutritional Supplementation for Athletic Performance (3)
        - PET6366 - Exercise, Nutrition and Weight Control (3)
        - PET6372 - Physical Activity and Nutritional Epidemiology (3)
        - PET6376 - Sport Nutrition (3)
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PET6521 - Exercise Physiology Instrumentation (3)
PET6690 - Exercise Prescription for Special Populations (3)
PET7387 - Exercise Endocrinology (3)

All electives are selected in conjunction with the student's graduate advisor or the graduate coordinator.

**Thesis Option**

- Complete all of the following
  - Earn at least 6 credits from the following types of courses:
    - APK 6971
  - Complete the following:
    - APK6703 - Statistical Methods in Kinesiology (3)
- Earn at least 15 credits from the following:
  - APK6703 - Statistical Methods in Kinesiology (3)
  - PET6096 - Youth Physical and Athletic Development (3)
  - PET6335 - Functional Anatomy and Kinesiology (3)
  - PET6357C - Environmental Perturbation and Human Performance (3)
  - PET6363 - Dietary and Nutritional Supplementation for Athletic Performance (3)
  - PET6366 - Exercise, Nutrition and Weight Control (3)
  - PET6372 - Physical Activity and Nutritional Epidemiology (3)
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  - PET6690 - Exercise Prescription for Special Populations (3)
  - PET7387 - Exercise Endocrinology (3)

- All electives are selected in conjunction with the student's graduate advisor or the graduate coordinator.

**Anatomical Sciences Specialization**

- Complete all of the following
  - Complete the following:
    - PHT6115C - Gross Anatomy/Neuroscience I (6)
    - PHT6118C - Gross Anatomy/Neuroscience II (6)
    - PHT6119L - Seminar in Anatomical Sciences Techniques (3)
    - PHT6510 - Administration of Anatomical Sciences Laboratory (3)
  - Earn at least 6 credits from the following:
    - APK6703 - Statistical Methods in Kinesiology (3)
    - PET6096 - Youth Physical and Athletic Development (3)
    - PET6335 - Functional Anatomy and Kinesiology (3)
    - PET6357C - Environmental Perturbation and Human Performance (3)
    - PET6363 - Dietary and Nutritional Supplementation for Athletic Performance (3)
    - PET6366 - Exercise, Nutrition and Weight Control (3)
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    - PET6388 - Cardiovascular Physiology (3)
    - PET6395 - Program Design in Strength and Conditioning (3)
    - PET6521 - Exercise Physiology Instrumentation (3)
    - PET6690 - Exercise Prescription for Special Populations (3)
    - PET7387 - Exercise Endocrinology (3)

- All electives are selected in conjunction with the student's graduate advisor or the graduate coordinator.

- Please review the catalog page for the Anatomical Sciences Graduate Certificate for courses required in that program.

**Grand Total Credits:** 36

**Program Details**

**Equipment Fee**

Full-time students in the Kinesiology MS program pay a $28 equipment fee each semester that they are enrolled. Part-time students pay $14 each semester that they are enrolled.

**Independent Learning**

All students are required to complete a practicum, literature review, or thesis in conjunction with their coursework.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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https://funding.graduate.ucf.edu

Kinesiology PhD

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy

Program Website
https://healthprofessions.ucf.edu/kpt/

Program Contact Information

David Fukuda PhD
Associate Professor
David.Fukuda@ucf.edu
Telephone: 407-823-0442
ED 320R

Is this program available 100% online?
No

Program Description
The Kinesiology PhD program provides advanced studies in the area of kinesiology, exercise physiology, and sport science. It is offered by the School of Kinesiology and Physical Therapy, home to the Institute of Exercise Physiology and Rehabilitation Science. The degree program combines state-of-the-art research facilities using cutting-edge technology with high quality and innovative instruction and curriculum. The program welcomes students from a variety of educational backgrounds including the biological and health-related professions, exercise science, physical education, or athletic training.

PROGRAM BEGINS FALL 2022.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline. In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree in a closely related field and master's level competency in educational research and statistics.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Goal statement.
- Resumé/vita reflecting relevant experience.
- Writing sample.

Graduate Application Deadlines

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<th>*Fall Priority</th>
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Millican Hall 230
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GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses: 48 Credit Hours
48 - 54 Total Credits

- Complete all of the following
  Core Courses: 24 Credit Hours
  - Complete all of the following
  - Complete the following:
    - APK6703 - Statistical Methods in Kinesiology (3)
    - APK6713 - Research Methods in Kinesiology (3)
    - EDF7403 - Quantitative Foundations of Educational Research (3)
    - EDF7405 - Quantitative Methods II (3)
    - IDS7501 - Issues and Research in Education (3)
    - APK7981 - Dissertation Proposal Preparation (3)
  - Earn at least 6 credits from the following:
    - IDS7500 - Seminar in Educational Research (1 - 99)

Specialization Courses: 24 Credit Hours

- Complete at least 8 of the following:
  - PET6357C - Environmental Perturbation and Human Performance (3)
  - EDF7406 - Multivariate Statistics in Education (3)
  - EDF7410 - Application of Nonparametric and Categorical Data Analysis in Education (3)
  - EDF7474 - Multilevel Data Analysis In Education (3)
  - EDF7488 - Monte Carlo Simulation Research in Education (3)
  - PET6096 - Youth Physical and Athletic Development (3)
  - PET6335 - Functional Anatomy and Kinesiology (3)
  - PET6363 - Dietary and Nutritional Supplementation for Athletic Performance (3)
  - PET6366 - Exercise, Nutrition and Weight Control (3)
  - PET6372 - Physical Activity and Nutritional Epidemiology (3)
  - PET6376 - Sport Nutrition (3)
  - PET6381 - Physiology of Neuromuscular Mechanisms (3)
  - PET6388 - Cardiovascular Physiology (3)
  - PET6389 - Exercise Physiology II (3)
  - PET6395 - Program Design in Strength and Conditioning (3)
  - PET6515 - Assessment and Evaluation in Kinesiology (3)
  - PET6521 - Exercise Physiology Instrumentation (3)
  - PET6910 - Problem Analysis - Review of Literature (3)
  - PET6690 - Exercise Prescription for Special Populations (3)
  - PET7365 - Cardiovascular Dynamics During Exercise (3)
  - PET7368 - Regulation of Metabolism During Exercise (3)
  - PET7387 - Exercise Endocrinology (3)
  - PHT6115C - Gross Anatomy/Neuroscience I (6)
  - PHT6118C - Gross Anatomy/Neuroscience II (6)

Dissertation

15 Total Credits

- Complete all of the following
  - Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee. All students must complete the candidacy examination prior to enrolling in Dissertation.
  - Earn at least 15 credits from the following types of courses:
    - PET 7980 - Dissertation Research

Candidacy

0 Total Credits

- The following are required to be admitted to candidacy for the Kinesiology Ph.D. and to enroll in dissertation hours:
  - Submission of an approved program of study.
  - Completion of all graduate course work, except for dissertation hours, with an overall 3.0 GPA.
  - Proof of current professional certification(s) demonstrating industry-relevant competencies.
  - Formation of a qualifying examination committee consisting of approved graduate faculty and graduate faculty scholars.
  - Successful completion of the qualifying examination/pre-dissertation project.
  - Formation of a dissertation advisory committee consisting of approved graduate faculty and graduate faculty scholars.
  - Successful defense of the written dissertation proposal which serves as the candidacy examination.

Grand Total Credits: 63 - 69

Program Details

Independent Learning

The dissertation satisfies the independent learning requirement.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Medical Speech-Language Pathology Graduate Certificate

College

College of Health Professions and Sciences

Department

School of Communication Sciences and Disorders

Program Website

https://healthprofessions.ucf.edu/csd/

Program Contact Information

Jacqueline Towson, PhD
Associate Professor
csdgraduate@ucf.edu
Telephone: 407-823-4798
HS 101

Is this program available 100% online?

No

Program Description

This certificate program has been temporarily suspended effective Summer 2016.

The UCF School of Communication Sciences and Disorders (CSD) Graduate Certificate in Medical Speech-Language Pathology is designed to prepare speech language pathologists and students currently enrolled in the CSD program with the knowledge and skills necessary to evaluate and treat individuals with medically-related communication disorders.

Program Prerequisites

Courses from a previous graduate degree program or certificate program cannot be applied toward the completion of the Certificate in Medical Speech-Language Pathology.

Current students in UCF’s Communication Sciences and Disorders MA program may only apply SPA 6565 - Feeding and Swallowing Disorders, toward both the Medical Speech-Language Pathology Certificate and the master's degree in communication sciences and disorders. Nine credit hours will need to be taken in addition to the regular master's program course requirements.
Application Requirements

Admission is open to those with a master's degree in speech-language pathology from an accredited institution recognized by UCF and UCF graduate students currently enrolled in the Communication Sciences and Disorders MA program. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete at least 4 of the following:
  - SPA6245 - Communication Disorders in Cleft Palate-Velopharyngeal Dysfunction (3)
  - SPA6417 - Cognitive/Communicative Disorders (3)
  - SPA6565 - Feeding and Swallowing Disorders (3)
  - SPA6453 - Management of Cognitive-Communication Disorders in Traumatic Brain Injury (3)
  - SPA6432 - Issues in Autism (3)

Grand Total Credits: 12

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Military Social Work Graduate Certificate

College
College of Health Professions and Sciences

Department
School of Social Work

Program Website
https://healthprofessions.ucf.edu/socialwork/
Is this program available 100% online?

No

Program Description

Students pursuing a Master of Social Work degree may choose a specialization in military social work.

The Graduate Certificate in Military Social Work will prepare students to provide behavioral health services, including mental health counseling aimed at building psychological resilience; treatment of post-traumatic stress disorder, depression, anxiety, suicide risk assessment and prevention techniques; and family therapy for strengthening military, veterans and their families during and after deployment.

The Military Social Work certificate is open to current UCF MSW Traditional and Advanced Standing students and a limited number of Counselor Education students only. Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

The following courses are required for the certificate but may also be used as electives in the MSW program.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor’s Degree

Program Prerequisites

Admission is open to current students in the UCF Master of Social Work program and a limited number of students in the UCF Counselor Education master’s program. Students interested in admission to this certificate program should contact the MSW Admissions Specialist or by calling (407) 823-3474 for more information.

Application Requirements

Admission is open to current students in the UCF Master of Social Work program and a limited number of students in the UCF Counselor Education master’s program. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. Please submit all requested material by the established deadline(s):

- One official transcript from each college/university attended (Graduate Studies should already have on file from your MSW application).
- Personal statement for Military Social Work. Applicants should write a personal autobiographical statement that is no more than two double spaced pages. Questions to answer include: What reasons or experiences led you to decide to apply for the military social work certificate? In completing the certificate, why is working with this population of interest to you?
- Up to date résumé

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Military Social Work Graduate Certificate</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tbody>
<tr>
<td>Domestic Applicants</td>
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<td>Jul 1</td>
<td>Dec 1</td>
<td>Apr 1</td>
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<td>International Applicants</td>
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</tr>
</tbody>
</table>

Application Deadlines Notes

Admission to the Certificate Program is rolling--applying before the deadline is encouraged.
Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete all of the following
  - Complete the following:
    - SOW6149 - Military Culture and Social Work Practice (3)
    - SOW6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders (3)
    - SOW6610 - Clinical Practice with Military and Veteran Families or Groups (3)
  - The listed courses are required for the certificate but may also be used as electives in the MSW program.

Grand Total Credits: 9

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Physical Therapy DPT

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy

Program Website
https://healthprofessions.ucf.edu/kpt/physicaltherapy/doctorate/

Program Handbook
Physical Therapy DPT Handbook
Program Description

The Doctor of Physical Therapy (DPT) program prepares students to become competent, compassionate, and ethical physical therapists able to effectively treat patients in a variety of health care settings. Graduates will be highly dedicated professionals who demonstrate clinical excellence through exceptional critical thinking, communication, patient education, advocacy, practice management and research skills.

The Doctor of Physical Therapy program is a three-year (nine consecutive semesters) professional doctoral curriculum designed to prepare entry-level therapists to practice in a variety of clinical settings. The professional curriculum is a full-time “lock-step” program. The program includes multiple clinical education experiences (internships) ranging from eight weeks to twelve weeks in duration. It also includes focused interprofessional education activities involving students from other professional disciplines as well as research training and activities.

Students who successfully complete the course of study will be granted the Doctor in Physical Therapy degree (DPT), enabling the graduate to take the national board examination leading to state licensure as a Physical Therapist. This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Doctor-of-Physical-Therapy.pdf.

The UCF Doctor of Physical Therapy program promotes lifelong learning and professional development, which is attained through active involvement in professional organizations such as the American Physical Therapy Association. UCF’s Doctor of Physical Therapy Program is fully accredited by the Commission on Accreditation of Physical Therapy Education.

Mission

The mission of the University of Central Florida’s Doctor of Physical Therapy Program is to cultivate excellence in physical therapist practice through comprehensive and focused doctoral education. The program fosters excellence through its dedication to foundational sciences, clinical skill proficiency, research and evidence-based practice, service and professional duty, and lifelong learning. The program is committed to the development and strengthening of the healthcare community in order to optimize patient care in the dynamic healthcare environment.

Vision

The Doctor of Physical Therapy Program at the University of Central Florida will be distinguished for:

- Its breadth, depth, and collaborative approach to physical therapist education
- Clinical excellence and advancement of clinical practice
- Scholarly achievements and professional recognition of students, faculty, and clinical partners
- Dedication to the health and well-being of the Central Florida community
- Professional commitment and advocacy
- Cultivation of professional development to advance the practice of physical therapy
Program Prerequisites

Each prerequisite course must be completed with a minimum grade of "C". The overall GPA for all prerequisite courses must be a 3.00 or higher to be considered for admission. The program recommends all prerequisite courses be completed at the time of application. Candidates with all prerequisites completed at the time of application may be given preference over those still completing courses. **No more than two prerequisite courses may be in progress the fall semester prior to the program's start and no more than one course may be in progress during the spring semester prior to the program’s start.** Courses older than ten years will not be accepted. Online courses are NOT accepted for the following prerequisites: anatomy courses, physiology courses, physics courses, or chemistry courses, unless taken in semesters affected by COVID-19 (see program Admissions page for additional information). Hybrid courses are only accepted for the prerequisite courses listed above if the lab component is delivered in a face-to-face format (submission of course description/syllabi may be required to verify course delivery mode). Email ptinfo@ucf.edu to request a prerequisite review.

**Anatomy and Physiology** - Two courses with labs and a minimum of 8 credit hours is required. One of two options must be met:

Option 1: One semester of Human Physiology with lab and one semester of Anatomy with lab.

Option 2: Two semesters of Anatomy/Physiology combined courses with labs.

**Biology / Biological Studies** - Two courses and a minimum of 6 credit hours is required. Labs are not required. Must be courses for science majors.

**Chemistry** - Two courses with labs and a minimum of 8 credit hours is required. Introduction and survey courses are NOT accepted.

**Physics** - Two courses with labs and a minimum of 8 credit hours is required. General Physics and Physics with Calculus are both acceptable courses.

**Psychology** - One course (3 credit hours) is required. Any psychology course that is taken within the Psychology Department will meet this requirement.

**Statistics** - One course (3 credit hours) is required.
Application Requirements

Applications are only accepted for Summer admission. The application for this program can be found at www.ptcas.org.

The Doctor of Physical Therapy program at UCF participates in the Physical Therapist Centralized Application Service, known as PTCAS. Prospective students applying to the entry-level physical therapist education program must apply online using the PTCAS application (this is in addition to the UCF Graduate Application which serves as a supplemental application). To learn more about the PTCAS application process, visit www.ptcas.org.

All application materials MUST be sent directly to PTCAS. Materials sent to the university or program and not to PTCAS will not be accepted. The following application materials must be received by PTCAS no later than October 15.

- Completed PTCAS Application (www.ptcas.org), including all documents required by PTCAS.
- One official transcript from each college/university attended.
- Official GRE scores taken within last five years. Use GRE CODE for UCF PTCAS: 3871 (Do not use the UCF "Institution Code" for GRE).
- Prerequisite courses completed within ten (10) years of anticipated matriculation.
- A minimum of 50 hours of observation/volunteer or work experience under the direct supervision of a licensed physical therapist. Hours must be verified through PTCAS by November 1st to be considered. A variety of settings is recommended.
- Applicants who have attended a college/university outside the United States must also provide a course-by-course credential evaluation with GPA calculation through WES.
- UCF Graduate Application (supplemental) must be submitted in addition to PTCAS application. Deadline to submit the supplemental application is October 15.

Incomplete applications will NOT be reviewed.

Application requirements:

- The bachelor's degree may be in any discipline from a regionally accredited institution and may be in progress at the time of application. However, the degree must be awarded prior to the program's start date in the Summer C semester (mid-May).
- Minimum GPA of 3.00 (on 4.00 scale) in the last 60 credit hours of an undergraduate degree.
- Minimum GPA of 3.00 (on 4.00 scale) for all prerequisite courses. Each prerequisite course grade must be a 'C' or higher ("C-" grades are NOT accepted).
- Submission of competitive GRE scores within last five (5) years.
- An interview, by invitation only.
- UCF Graduate Application (supplemental) MUST be completed by October 15 with supplemental application fee paid by ALL APPLICANTS.
- A resume will only be required for students who are offered an interview by the program. Once requested, the applicant will email the resume directly to the program.

Applicants not meeting these minimum requirements will not be considered for admission. Meeting minimum requirements does not guarantee an applicant an interview or admission to the program. All applicants and admitted students to the Doctor of Physical Therapy program must perform certain Essential Functions in order to participate and complete program requirements.

PTCAS will begin accepting applications in July, however, the program will not begin reviewing applications until August or September.

Admissions decisions will be made only once per academic year. Incoming students must begin the program in the summer C semester (mid-May).

Thirty-eight (38) students are admitted to the program each year. The demographics of a recent class include an average age of 22 years and a grade point average of 3.80 for upper-division coursework and 3.75 for prerequisite courses (on a 4.0 scale), and an average GRE scores of 155 / 156 / 4WA.

Admission to the program is competitive based on the above criteria, the applicant's abilities, past academic performance, work experience and match of the applicant with the program's mission and goals.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Physical Therapy DPT</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tr>
<td>Domestic Applicants</td>
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<tr>
<td>International Applicants</td>
<td></td>
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<td></td>
<td>Oct 15</td>
</tr>
</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact
Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
UCF DPT PTCAS
GRE code: 3871
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements
Required Courses
114 Total Credits

- Complete all of the following
  
  Year 1
  
  - Complete all of the following
    
    Summer Term 1
    
    - Complete the following:
      
      - PHT5003 - Foundations of Physical Therapy (2)
      - PHT5125 - Clinical Kinesiology (2)
      - PHT5125L - Clinical Kinesiology Lab (1)
      - PHT6115C - Gross Anatomy/Neuroscience I (6)
      - PHT6156C - Applied Human Physiology for Health Sciences (3)

    Fall Term 1
    
    - Complete the following:
      
      - PHT5240 - Physical Assessment (1)
      - PHT5240L - Physical Assessment Lab (2)
      - PHT5260 - Patient Care Skills (2)
      - PHT5260L - Patient Care Skills Lab (2)
      - PHT6118C - Gross Anatomy/Neuroscience II (6)
      - PHT6153 - Physiologic Assessment in Physical Therapy Practice (2)
      - PHT6606 - Research Methods in Physical Therapy (2)

    Spring Term 1
    
    - Complete the following:
      
      - PHT5218C - Therapeutic Modalities in Rehabilitation (3)
      - PHT5241 - Therapeutic Exercises I (2)
      - PHT5241L - Therapeutic Exercise Lab I (2)
      - PHT6242 - Orthopedic Physical Therapy (3)
      - PHT6242L - Orthopedic Physical Therapy Lab (1)
      - PHT6306 - Pathology in Rehabilitation (2)
      - PHT6356 - Pharmacology in Rehabilitation (2)

  
  Year 2
  
  - Complete all of the following
    
    Summer Term 2
    
    - Complete the following:
      
      - PHT5718 - Neurological Physical Therapy (3)
      - PHT5718L - Neurological Physical Therapy Lab (1)
      - PHT6219C - Pain Mechanisms and Treatment in Rehabilitation (2)
      - PHT6245 - Therapeutic Exercise II (2)
      - PHT6245L - Therapeutic Exercise II Lab (1)
      - PHT7722C - Integrative Clinical Practice (2)

    Fall Term 2
    
    - Complete the following:
      
      - PHT6521 - Management of Physical Therapy Services (2)
      - PHT6322C - Pediatric Physical Therapy (3)
      - PHT6716C - Advanced Orthopedic Physical Therapy (2)
      - PHT6720 - Integumentary Physical Therapy (1)
- PHT6805C - Clinical Education I (4)
- PHT7742C - Acute Care Physical Therapy (2)

**Spring Term 2**
- Complete the following:
  - PHT6374C - Geriatric Physical Therapy (2)
  - PHT6381C - Cardiopulmonary Physical Therapy (2)
  - PHT6618 - Research Applications in Physical Therapy (2)
  - PHT6719 - Advanced Neurological Physical Therapy (2)
  - PHT6719L - Advanced Neurological Physical Therapy Lab (1)
  - PHT7134C - Physical Therapy Integration (2)
  - PHT7730C - Primary Care for the Physical Therapist (2)

**Year 3**
- Complete all of the following

**Summer Term 3**
- Complete the following:
  - PHT7822C - Clinical Education II (6)

**Fall Term 3**
- Complete the following:
  - PHT7721C - Integrations in Orthopedic Physical Therapy (1)
  - PHT7772C - Advanced Neurological Physical Therapy II (1)
  - PHT7780C - Advanced Geriatric Physical Therapy (1)
  - PHT7329C - Advanced Pediatric Physical Therapy (1)
  - PHT7521 - Management of Physical Therapy Services II (2)
  - PHT7823C - Clinical Education III (4)
  - PHT6070C - Radiology/Imaging for Physical Therapy (3)

**Spring Term 3**
- Complete all of the following
  - Complete the following:
    - PHT7021 - Professional Practice in Physical Therapy (2)
    - PHT7900 - Capstone Project in Physical Therapy (3)
    - PHT7829C - Clinical Education IV (4)

**PHT 7XXXC Elective Course**
- Complete 1 of the following
- Elective Course Options (student must select at least one of the following courses, pending availability). PHT 6958 Physical Therapy Study Abroad can fulfill the elective requirement and may be offered at any point in the DPT curriculum:
  - Complete at least 1 of the following:
    - PHT7778C - Advanced Manual Therapy (2)
    - PHT7764C - Advanced Neurological Treatment (2)
    - PHT7702C - Advanced Orthotics and Prosthetics (2)
    - PHT7779C - Sports Physical Therapy (2)
  - Earn at least 2 credits from the following types of courses:
    - PHT 6958 - Study Abroad

**Examinations**

**0 Total Credits**

- Each student is required to achieve a passing score on the comprehensive examination. If a student does not achieve a passing score on the first attempt, a second version of the exam will be provided. If the student does not achieve a passing score on the second examination, the student will be required to pass an oral comprehensive examination which will involve patient case scenario(s). The first two examinations will include the practice exam(s) developed by the Federation of State Boards of Physical Therapy, with passing scores required to be no less than 600 (overall scale score). If a student is required to take the oral examination, a passing score is deemed as having the majority of raters providing an overall pass score. Failure of the comprehensive examination upon this third attempt will result in review by the program faculty in accordance with its retention and advancement procedures to determine if the student will be dismissed from the program or placed on a remediation plan.

**Grand Total Credits:** 114

**Program Details**

**Equipment Fee**

Students in the Doctor of Physical Therapy program pay a $90 equipment fee each semester that they are enrolled.

**Independent Learning**

All students in the Doctor of Physical Therapy (DPT) program are required to engage in independent learning, a process in which individuals take the initiative, with or without help of others to attain knowledge, skills, and professional behaviors. Tangible assignments, such as "Grand Rounds" (i.e., patient case studies), research projects, scholarly reviews, and full-time clinical education experiences mandated by the program and provide important independent learning experiences giving students ample opportunities to develop and demonstrate independent learning skills as a result of self-inquiry and group dialogue.

2021-2022 Graduate Catalog
Financial Information

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Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Social Work Administration Graduate Certificate

College
College of Health Professions and Sciences

Department
School of Social Work

Program Website
https://healthprofessions.ucf.edu/socialwork/

Program Contact Information

Shawn Lawrence PhD, LCSW
Associate Professor
shawn.lawrence@ucf.edu
Telephone: 407-823-3112
HPA 1 Suite 204

Is this program available 100% online?
No

Program Description

This program has been temporarily suspended effective Summer 2014.

The Graduate Certificate in Social Work Administration is designed to prepare students for management positions in the public sector and private nonprofit agencies.

Each student will select courses that are suited to their career objective. The courses offered in this program include strategies for organizational management, strategic planning, employment law, leadership skills development, selection of performance measurements, quality assurance, needs assessments, program monitoring and evaluation, budgeting, grant writing and human resource management.

Application Requirements

Admission is only open to those who are currently enrolled in the Master of Social Work program. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. Please submit all requested material by the established deadline(s).
Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  SOW 6246 - Policy Analysis and Social Change 3 Credit Hours
  SOW 6383 - Social Work Administration 3 Credit Hours

Elective Courses
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  PAD 5850 - Grant and Contract Management 3 Credit Hours
  PAD 6208 - Nonprofit Financial Management 3 Credit Hours
  PAD 6417 - Human Resource Management 3 Credit Hours

Grand Total Credits: 12

Social Work MSW

College
College of Health Professions and Sciences

Department
School of Social Work

Program Website
https://healthprofessions.ucf.edu/socialwork/

Program Contact Information

MSW Admissions
mswadmissions@ucf.edu
Telephone: 407-823-4988
HS Suite 236

Is this program available 100% online?
Yes

UCF Online

Please Note: Social Work (MSW) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees. Students who apply for admission to the online part-time tracks will not be permitted to switch to the on-campus, traditional tracks and students who apply for admission to the on-campus, traditional tracks will not be permitted to switch to the online part-time tracks.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf
Program Description

The Master of Social Work (MSW) program prepares students for advanced social work practice. The program educates students for community-based clinical social work practice with individuals, families, and groups. The MSW program is accredited by the Council on Social Work Education (CSWE).

The program offers multiple tracks to allow students to progress through the required MSW curriculum on either a full-time or part-time plan of study. The Full-Time Traditional Track and Part-Time Traditional Track are available for students who do not have a BSW degree. The Full-Time Advanced Standing Track and the Part-Time Advanced Standing Track are available for students who have completed a BSW degree from a CSWE-accredited program within the last six years. More information on the plans of study and requirements for each track is given in the individual track descriptions. Please scroll to the bottom of this page for further details on these Tracks.

The curriculum draws from a generalist perspective and emphasizes critical thinking skills, empirically based accountable practice, and ethical services for clients experiencing a wide range of problems. Students learn preventive and therapeutic interventions aimed at enhancing human functioning and quality of life. Graduates of the program will have the ability to work with diverse clients in a variety of agency settings.

The MSW program strives to educate students to become successful practitioners in the field of clinical social work. To that end, the National Association of Social Workers (NASW) Code of Ethics is re-enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

The Master of Social Work Program offers several options to students including full-time study, advanced standing admission, as well as the mixed mode and online classes to support the part-time study. Applicants must choose a track in this program. Track(s) may have different requirements.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

2021-2022 Graduate Catalog
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Social Work MSW - Social Work MSW, Full-Time Advanced Standing Track

College
College of Health Professions and Sciences

Department
School of Social Work

Track Website
https://healthprofessions.ucf.edu/socialwork/

Track Handbook
Social Work MSW, Full-Time Advanced Standing Track

Track Contact Information
Maxine McGregor, MSW, MS
Instructor, MSW Program Director
maxine.mcgregor@ucf.edu
Telephone: 407-823-3037
HS 1, Suite 233

mswadmissions@ucf.edu
Telephone: 407-823-3474
HS 1, Suite 236

Is this track available 100% online?
No

Licensure Disclosure
This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf.

Track Description
The Master of Social Work (MSW) Program, Full-Time Advanced Standing Track allows students with baccalaureate degrees in Social Work from a CSWE-accredited school/program who demonstrate academic potential and professional maturity to complete the MSW in three semesters of graduate study.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program. The Full-Time Advanced Standing Track is offered at the main campus and may be completed in three semesters (summer, fall, and spring).

The MSW program strives to provide students with the education needed to become successful practitioners in the field of clinical social work. The National Association of Social Workers (NASW) Code of Ethics is enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

The 32-hour MSW program is composed of 18 credit hours of required core and advanced clinical specialization courses. In addition, students complete 6 credit hours of electives and 8 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

Total Credit Hours Required: 32 Credit Hours Minimum beyond the Bachelor's Degree
**Track Prerequisites**

The Council on Social Work Education (CSWE) require that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following categories:

- **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
- **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
- **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
- **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- **One official transcript** (in a sealed envelope) from each college/university attended.
- **Successful completion** (with a grade of C or higher) at least one course in each of the following categories:
  - **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
  - **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
  - **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
  - **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- **The GRE is not required for admission to this program.**
- **Up-to-date résumé**
- **Video Essay**
- **Three letters of recommendation** that must have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy, etc. WILL NOT be considered. Please submit your application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received, but they still must be submitted by the application deadline. Applicants must provide a letter of recommendation from each of the following:
  - **Academic:** A professor from a previously attended college/university who taught you in a course. Letters from Field Seminar Instructors are NOT accepted as an academic letter. Recommendations from full-time faculty are strongly encouraged. For applicants who have been out of college for five or more years, the applicant may substitute an employment-based recommendation. Letters from advisors will not be considered unless indicated that they also taught you as a student. Letters from Teacher Assistants are NOT accepted.
  - **Field:** An agency field task supervisor who has directly supervised the applicant in a social work field internship setting.
  - **Employment:** Either volunteer or paid employment immediate supervisor.
- **A Professional Statement:** Applicants must answer the following questions within 3-6 pages. Please use headings for each question.
  - Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?
  - What are your social work career interests?
  - What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?
  - Where do you see yourself 10 years from now in the field of social work?
  - What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?
  - As a social worker, you will be expected to practice ethically according to the National Association of Social Workers (NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?
  - The MSW program requires students to complete a clinical (600 hours) internship concurrent with their coursework. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.

- **Writing Sample:** Applicants must submit an individually-authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. Group papers will not be accepted. The paper should be 5-10 pages in length, contain citations, and a reference list in APA format, and will be used to evaluate the applicant's ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, policy analysis papers, and case studies will NOT be considered. If the applicant does not have an academic paper, then he/she must write a 5-10 page paper in APA format that addresses any social issue related to social work.
  - **Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.**

Please note: The MSW program only accepts one application from each prospective student per academic year. Applicants must
choose to apply to one track and one semester only.

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Students are admitted and will begin coursework in summer semesters only.

To be retained in the program, students must attend the mandatory MSW Program Orientation that takes place the week before summer classes start. Students who fail to attend this orientation will have their offer of admission rescinded.

Students are also expected to demonstrate: initiative, dependability, social concern, self-awareness, appreciation for diversity in others, the ability to problem-solve, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions can be found in the MSW Handbook, and define the minimal professional, cognitive, and behavioral abilities required for successful program completion as well as entry-level social work practice.

Students admitted into the MSW Program will sign an acknowledgment that they understand they must adhere to these functions in order to be in good standing and remain in the MSW Program.

**Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.**

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if--in the judgment of the faculty-- the student demonstrates behavior incompatible with working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics.

**Advanced Standing**

To be considered for advanced standing admission, applicants must have a baccalaureate degree in Social Work from a CSWE-accredited program and demonstrate the academic potential and professional maturity to meet the demands of the program with a 3.3 GPA in their last 60 credits. Previous baccalaureate coursework that received at least a “B-” will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program.

**Graduate Application Deadlines**

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<thead>
<tr>
<th>Full-Time Advanced Standing</th>
<th>*Fall Priority</th>
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<th>Spring</th>
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<td>International Applicants</td>
<td>Nov 1</td>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

**Grace Guilliams**
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements
Clinical Specialization

18 Total Credits

- Complete the following:
  - SOW6123 - Psychosocial Pathology (3)
  - SOW6433 - Clinical Evaluation in Social Work Practice (3)
  - SOW6324 - Clinical Practice with Groups (3)
  - SOW6348 - Clinical Practice with Individuals (3)
  - SOW6612 - Clinical Practice with Families (3)
  - SOW6424 - Theories for Evidence-Based Clinical Practice in Social Work (3)

Electives
6 Total Credits

- Complete at least 2 of the following:
  - SOW6149 - Military Culture and Social Work Practice (3)
  - SOW6109 - Violence Against Women: A Global Perspective (3)
  - SOW6155 - Human Sexuality in Social Work Practice (3)
  - SOW6603 - Social Work in Health Settings (3)
  - SOW6604 - Medications in Social Work Practice (3)
  - SOW6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders (3)
  - SOW6610 - Clinical Practice with Military and Veteran Families or Groups (3)
  - SOW6635 - Social Work Practice in Schools (3)
  - SOW6644 - Interventions with Older Adults and Their Families (3)
  - SOW6652 - Child Welfare Services (3)
  - SOW6655 - Child Abuse: Treatment and Prevention (3)
  - SOW6655 - Child Abuse: Treatment and Prevention (3)
  - SOW6712 - Clinical Social Work Practice with Substance Addictions (3)
  - SOW6713 - Prevention and Treatment of Adolescent Substance Use and Misuse (3)
  - SOW6726 - Social Work Practice with Children from Birth to Age Five and their Families (3)
  - SOW6727 - Core Concepts of Child and Adolescent Trauma (3)
  - SOW6735 - Documentation Skills for Helping Professionals (3)
  - SOW6756 - Forensic Social Work (3)
  - SOW6846 - Spirituality in Clinical Social Work Practice (3)
  - SOW6806 - Behavioral Health Skills for Clinical Social Workers (3)

Field Experience
8 Total Credits

- Earn at least 8 credits from the following types of courses:
Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge; to develop and refine both foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar. Students must complete at least 50% of their field hours during the agency's normal business hours. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements. Many social work agencies have students complete background checks, including formal background checks, law enforcement finger printing, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may prevent being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made. The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks.

Grand Total Credits: 32
Track Details

The MSW Advanced Standing track allows no more than one C grade or 3 credit hours (whichever is greater) to be used toward the degree requirements. Exceeding three credit hours or one C grade is grounds for dismissal from the MSW Advanced Standing track.

Previous baccalaureate coursework that received at least a "B-" will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation-level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

Required Sequence of Curriculum

First Semester (Summer)
- SOW 6123 - Psychosocial Pathology 3 Credit Hours
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work 3 Credit Hours

Second Semester (Fall)
- SOW 6324 - Clinical Practice with Groups 3 Credit Hours
- SOW 6348 - Clinical Practice with Individuals 3 Credit Hours
- SOW 6612 - Clinical Practice with Families 3 Credit Hours
- SOW 6531 - Full Time MSW Clinical Field Integrative Seminar I 2 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
  Take 2 credit hours

Third Semester (Spring)
- SOW 6433 - Clinical Evaluation in Social Work Practice 3 Credit Hours
- SOW Clinical elective
- SOW Clinical elective
- SOW 6536 - Full Time MSW Clinical Field Education and Seminar II 2 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
  Take 2 credit hours

Transfer Credit

Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Students who have completed course work in an accredited MSW program may transfer up to 9 credit hours of non-field courses toward the 32 credit hours of the degree. Students must have received a grade of "B-" or higher in these courses. Courses will be evaluated on a course-by-course basis by the MSW Director. Field classes are not eligible for transfer.

Students seeking to transfer to the School of Social Work from another CSWE accredited social work program are required to meet the criteria for admission and follow the application procedures.

Additionally, one of the academic references must be from the MSW Program Coordinator or academic adviser in the program from which the applicant is transferring and must address the academic standing in that program. If not currently enrolled, the reference must be from the former MSW Program Coordinator or academic adviser. Syllabi are required for any social work classes being considered for transfer credit.

As per university policy, transfer credits will not be considered for the market based fully online part time tracks.

Equipment Fee

Full-time students in the MSW program pay a $35 equipment fee each semester that they are enrolled.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Social Work MSW - Social Work MSW, Full-Time Traditional Track

College
College of Health Professions and Sciences

Department
School of Social Work

Track Website
https://healthprofessions.ucf.edu/socialwork/

Track Handbook
Social Work MSW, Full-Time Traditional Track

Track Contact Information
Maxine McGregor, MSW, MS
Instructor, MSW Program Director
maxine.mcgregor@ucf.edu
Telephone: 407-823-3037
HS 1, Suite 233

mswadmissions@ucf.edu
Telephone: 407-823-3474
HS 1, Suite 236

Is this track available 100% online?
No

Licensure Disclosure
This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf.

Track Description
The Master of Social Work (MSW), Full-Time Traditional Track allows students who do not have a BSW degree to complete the MSW required curriculum in two years of full-time study at the main campus.

The first year of study in the Master of Social Work (MSW), Full-Time Traditional Track includes 24 credit hours in class work and 6 credit hours in field education. The second year of study includes 24 credit hours in class work and 8 credit hours in the field.

The MSW program strives to provide students with the education needed to become successful practitioners in the field of clinical social work. The National Association of Social Workers (NASW) Code of Ethics is enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

The 62-hour MSW program is composed of 39 credit hours of required core and advanced clinical specialization courses. In addition, students complete 9 credit hours of electives and 14 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers, and internships also contribute to the self-development of our students. Students in the 62-hour program must include at least 31 hours of course work at the 6000 level in their program of study.

Total Credit Hours Required: 62 Credit Hours Minimum beyond the Bachelor's Degree
Track Prerequisites

The Council on Social Work Education (CSWE) require that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following categories:

- **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
- **Physical and Biological sciences** (examples: biology, chemistry, anatomy, or physiology)
- **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
- **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- **One official transcript** (in a sealed envelope) from each college/university attended.
- **Successful completion** (with a grade of C or higher) at least one course in each of the following categories:
  - **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
  - **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
  - **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
  - **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- **The GRE is not required for admission to this program.**
- **Up-to-date résumé**
- **Video Essay**
- **Three letters of recommendation** that must have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy, etc. WILL NOT be considered. Please submit your application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received, but they still must be submitted by the application deadline. Applicants must provide a letter of recommendation from each of the following:
  - **Academic:** A professor from a previously attended college/university who taught you in a course. Letters from Field Seminar Instructors are NOT accepted as an academic letter. Recommendations from full-time faculty are strongly encouraged. For applicants who have been out of college for five or more years, the applicant may substitute an employment-based recommendation. Letters from advisors will not be considered unless indicated that they also taught you a student. Letters from Teacher Assistants are NOT accepted.
  - **Employment:** Either volunteer or paid employment immediate supervisor.
  - **Third Recommendation:** A second academic or employment-based recommendation should be submitted for the third recommendation.
- **A Professional Statement:** Applicants must answer the following questions within 3-6 pages. Please use headings for each question.
  - Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?
  - What are your social work career interests?
  - What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?
  - Where do you see yourself 10 years from now in the field of social work?
  - What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?
  - As a social worker, you will be expected to practice ethically according to the National Association of Social Workers (NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?
  - The MSW program requires students to complete a clinical (600 hours) internship concurrent with their coursework. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.
  - **Writing Sample:** Applicants must submit an individually-authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. **Group papers will not be accepted.** The paper should be 5-10 pages in length, contain citations, and a reference list in APA format, and will be used to evaluate the applicant’s ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, policy analysis papers, and case studies will NOT be considered. If the applicant does not have an academic paper, then he/she must write a 5-10 page paper in APA format that addresses any social issue related to social work.
  - **Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation.** Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Please note: The MSW program only accepts one application from each prospective student per academic year. Applicants must
choose to apply to one track and one semester only

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Students admitted will begin coursework in the fall semester only.

To be retained in the program, students must attend the mandatory MSW Program Orientation that takes place the week before fall classes start. Students who fail to attend this orientation will have their offer of admission rescinded.

To be accepted into and retained in the program, students are expected to demonstrate: initiative, dependability, social concern, self-awareness, appreciation for diversity in others, the ability to problem-solve, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions can be found in the MSW Handbook—which students must read prior to beginning their plan of study. These essential functions define the minimal professional, cognitive, and behavioral abilities required for successful program completion along as well as entry-level clinical social work practice. Students admitted into the MSW Program will sign an acknowledgment that they understand that they must adhere to these essential functions in order to be in good standing and remain in the MSW Program.

**Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.**

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if, in the judgment of the faculty, the student demonstrates behavior incompatible with working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics. MSW graduates from CSWE accredited programs outside of UCF who need to complete a field placement for Florida licensure (LCSW) must apply to the MSW program as a full-time or part-time second-year clinical student.

**Graduate Application Deadlines**

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<thead>
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<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Grace Guilliams  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions  

**Mailing Address**  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112  

**Institution Codes**  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233  

**Degree Requirements**

Core  
21 Total Credits

- Complete the following:
  - SOW5107 - Human Behavior in the Social Environment (3)
  - SOW5217 - Foundations of Behavioral Health Policy and Social Work Practice (3)
  - SOW5312 - Diverse Client Populations (3)
  - SOW5235 - Social Welfare Policies and Services (3)
  - SOW5305 - Social Work Practice I: Generalist Practice (3)
SOW5306 - Social Work Practice II: Intervention Approaches (3)
SOW5404 - Social Work Research (3)

Clinical Specialization
18 Total Credits

- Complete the following:
  - SOW6123 - Psychosocial Pathology (3)
  - SOW6324 - Clinical Practice with Groups (3)
  - SOW6348 - Clinical Practice with Individuals (3)
  - SOW6612 - Clinical Practice with Families (3)
  - SOW6424 - Theories for Evidence-Based Clinical Practice in Social Work (3)
  - SOW6433 - Clinical Evaluation in Social Work Practice (3)

Electives
9 Total Credits

- Complete 1 of the following
  - One elective is required as a component of the foundation curriculum and two clinical electives are required as components of the clinical specialization. Students may choose to take clinical electives for all three required MSW electives. Clinical elective 3 Credit Hours Clinical elective 3 Credit Hours Practice/ Non-Clinical or Clinical elective 3 Credit Hours
  - All Clinical Elective Option
  - Complete at least 3 of the following:
    - SOW6149 - Military Culture and Social Work Practice (3)
    - SOW6109 - Violence Against Women: A Global Perspective (3)
    - SOW6155 - Human Sexuality in Social Work Practice (3)
    - SOW6603 - Social Work in Health Settings (3)
    - SOW6604 - Medications in Social Work Practice (3)
    - SOW6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders (3)
    - SOW6610 - Clinical Practice with Military and Veteran Families or Groups (3)
    - SOW6635 - Social Work Practice in Schools (3)
    - SOW6644 - Interventions with Older Adults and Their Families (3)
    - SOW6652 - Child Welfare Services (3)
    - SOW6655 - Child Abuse: Treatment and Prevention (3)
    - SOW6670 - Clinical Social Work Practice with LGBTQ+ (3)
    - SOW6712 - Clinical Social Work Practice with Substance Addictions (3)
    - SOW6713 - Prevention and Treatment of Adolescent Substance Use and Misuse (3)
    - SOW6726 - Social Work Practice with Children from Birth to Age Five and their Families (3)
    - SOW6726 - Social Work Practice with Children from Birth to Age Five and their Families (3)
    - SOW6735 - Documentation Skills for Helping Professionals (3)
    - SOW6756 - Forensic Social Work (3)
    - SOW6806 - Behavioral Health Skills for Clinical Social Workers (3)
    - SOW6846 - Spirituality in Clinical Social Work Practice (3)
  - Practice/ Non-Clinical and Clinical Elective Option
    - Complete all of the following
      - SOW6383 - Social Work Administration (3)
  - Earn at least 6 credits from the following types of courses:
    - Clinical Elective Courses listed above

Field Experience
14 Total Credits

- Earn at least 14 credits from the following types of courses:
  - Generalist Field Education and Integrative Seminars 6 Credit Hours Clinical Field Education and Integrative Seminars 8 Credit Hours Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge as well as to develop and refine foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Generalist MSW students complete a minimum of 400 hours in the field; clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar. Students must complete at least 50% of their field hours during the agency's normal business hours. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements. Many social work agencies have students complete background checks, including formal background checks, law enforcement fingerprinting, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may prevent being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made. The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks.

Grand Total Credits: 62
**Track Details**

Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

**Required Sequence of Curriculum**

**First Semester (Fall)**
- SOW 5107 - Human Behavior in the Social Environment **3 Credit Hours**
- SOW 5132 - Diverse Client Populations **3 Credit Hours**
- SOW 5235 - Social Welfare Policies and Services **3 Credit Hours**
- SOW 5305 - Social Work Practice I: Generalist Practice **3 Credit Hours**
- SOW 5538 - Full-Time MSW Generalist Field Integrative Seminar I **1 Credit Hours**
- SOW 5940 - Generalist Field Education **VAR Credit Hours**

Take 2 credit hours

**Second Semester (Spring)**
- SOW 5306 - Social Work Practice II: Intervention Approaches **3 Credit Hours**
- SOW 5404 - Social Work Research **3 Credit Hours**
- SOW 5217 - Foundations of Behavioral Health Policy and Social Work Practice **3 Credit Hours**
- SOW Elective (Clinical or Non-Clinical)
- SOW 5539 - Full-Time MSW Generalist Field Integrative Seminar II **1 Credit Hours**
- SOW 5940 - Generalist Field Education **VAR Credit Hours**

Take 2 credit hours

**Third Semester (Summer)**
- SOW 6123 - Psychosocial Pathology **3 Credit Hours**
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work **3 Credit Hours**

**Fourth Semester (Fall)**
- SOW 6348 - Clinical Practice with Individuals **3 Credit Hours**
- SOW 6612 - Clinical Practice with Families **3 Credit Hours**
- SOW 6324 - Clinical Practice with Groups **3 Credit Hours**
- SOW 6531 - Full Time MSW Clinical Field Integrative Seminar I **2 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**

Take 2 credit hours

**Fifth Semester (Spring)**
- SOW 6433 - Clinical Evaluation in Social Work Practice **3 Credit Hours**
- SOW Clinical elective
- SOW Clinical elective
- SOW 6536 - Full Time MSW Clinical Field Education and Seminar II **2 Credit Hours**
- SOW 6940 - Clinical Field Education **VAR Credit Hours**

Take 2 credit hours

**Transfer Credit**

Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Transfer credits will be evaluated on a case by case basis by the MSW Program Director. Students must submit syllabi and have earned a grade of "B-" or better in these courses in order for them to be evaluated for transfer credit.

**Field courses taken elsewhere cannot be transferred toward satisfying the field component of the degree.**

Students seeking to transfer to the School of Social Work from another CSWE accredited social work program are required to meet the criteria for admission and follow the application procedures. Additionally, one of the academic references must be from the MSW Program Coordinator or academic adviser in the program from which the applicant is transferring and must address the academic standing in that program. If not currently enrolled, the reference must be from the former MSW Program Coordinator or academic adviser.

As per university policy, transfer credits will not be considered for the market based fully online part time tracks.

**Equipment Fee**

Full-time students in the MSW program pay a $35 equipment fee each semester that they are enrolled.

**Independent Learning**

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as
research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

The field experiences and practice electives provide substantial opportunities for students to learn independently and practically about social work practice.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Social Work MSW - Social Work MSW, Online Part-Time Advanced Standing Track

College
College of Health Professions and Sciences

Department
School of Social Work

Track Website
https://www.ucf.edu/online/degree/master-of-social-work-msw/

Track Handbook
Social Work MSW, Online Part-Time Advanced Standing Track

Track Contact Information

Shellene Mazany, MSW, LCSW
Online MSW Director, Associate Instructor
Shellene.Mazany@ucf.edu
Telephone: 407-823-1089

Minoska Hernandez
Online MSW Admissions Specialist
Minoska.Hernandez@ucf.edu
Telephone: 407-823-4110

Is this track available 100% online?
Yes

2021-2022 Graduate Catalog
Track Prerequisites

Please note: Social Work (MSW) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf.

Track Description

The Online Master of Social Work (MSW) Part-Time Advanced Standing Track is offered completely online and allows students with baccalaureate degrees in Social Work from a CSWE-accredited school/program who demonstrate academic potential and professional maturity to complete the MSW degree in four semesters of graduate study.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program.

The MSW program strives to educate students to become successful practitioners in the field of clinical social work. To that end, the National Association of Social Workers (NASW) Code of Ethics is reinforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

Students who apply for admission to the Online Part-time Advanced Standing track will not be permitted to switch to the on-campus, face-to-face track due to the strict cohort model followed by the online program.

This track is completed entirely online and charges an enhanced tuition rate. As such, Online MSW students are not permitted to simultaneously enroll in any graduate or certificate programs through UCF. Please visit UCF Online for additional information about tuition and fees.

The 32-hour MSW program is composed of 18 credit hours of required core and advanced clinical specialization courses. In addition, students complete 6 credit hours of electives and 8 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

Total Credit Hours Required: 32 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

The Council on Social Work Education (CSWE) requires that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following areas:

- **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion)
- **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
- **Mathematics** (examples: calculus, college algebra, computer science, or statistics)
- **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- **One official transcript** (in a sealed envelope) from each college/university attended.
- **Successful completion** (with a grade of C or higher) at least one course in each of the following categories:
  - **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
  - **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology);
  - **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
  - **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- **The GRE is not required for admission to this program.**
- **Up-to-date résumé**
- **Three letters of recommendation** that must have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy, etc. WILL NOT be considered. Please submit your application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received,
but they still must be submitted by the application deadline. Applicants must provide a letter of recommendation from each of the following:

- **Academic**: A professor from a previously attended college/university who taught you in a course. Letters from Field Seminar Instructors are NOT accepted as an academic letter. Recommendations from full-time faculty are strongly encouraged. For applicants who have been out of college for five or more years, the applicant may substitute an employment-based recommendation. Letters from advisors will not be considered unless indicated that they also taught you as a student. Letters from Teacher Assistants are NOT accepted.
- **Employment**: Either volunteer or paid employment immediate supervisor.
- **Field**: An agency field task supervisor who has directly supervised the applicant in a social work field internship setting.

- **A Professional Statement**: Applicants must answer the following questions within 3-6 pages. Please use headings for each question.
  - Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?
  - What are your social work career interests?
  - What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?
  - Where do you see yourself 10 years from now in the field of social work?
  - What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?
  - As a social worker, you will be expected to practice ethically according to the National Association of Social Workers (NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?
  - The MSW program requires students to complete a clinical (600 hours) internship concurrent with their coursework. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.
  - **Writing sample.** Applicants must submit an individually authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. Group papers will not be accepted. The paper should be 5-10 pages in length, contain citations, and a reference list in APA format, and will be used to evaluate the applicant's ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, and case studies will not be considered. If the applicant does not have an academic paper, then they must write a 5-10 page paper on a social issue that addresses any social issue related to social work.
  - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

*Please note:* The MSW program only accepts one application from each prospective student per academic year (Fall, Spring, Summer). Applicants must choose to apply to one track and one semester only.

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Students are admitted and can begin coursework in fall semesters only. To be accepted into and retained in the program, students are expected to demonstrate initiative, dependability, social concern, self-awareness, appreciation for diversity in others, problem-solving ability, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions can be found in the MSW Student Handbook and define the minimal professional, cognitive, and behavioral abilities required for successful program completion as well as entry-level clinical social work practice. Students admitted into the MSW Program will sign an acknowledgment that they understand they must adhere to these functions in order to be in good standing and remain in the MSW Program.

**Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.**

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if, in the judgment of the faculty, the student demonstrates behaviors incongruent to working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics.

**Advanced Standing**

To be considered for advanced standing admission, applicants must have a baccalaureate degree in Social Work from a CSWE-accredited program and demonstrate the academic potential and professional maturity to meet the demands of the program with a 3.3 GPA in their last 60 credits. Previous baccalaureate course work that received at least a "B-" will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program.
Graduate Application Deadlines

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<thead>
<tr>
<th>Online Part-Time Advanced Standing</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tr>
<td>Domestic Applicants</td>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Clinical Specialization
18 Total Credits

- Complete the following:
  - SOW6123 - Psychosocial Pathology (3)
  - SOW6433 - Clinical Evaluation in Social Work Practice (3)
  - SOW6324 - Clinical Practice with Groups (3)
  - SOW6348 - Clinical Practice with Individuals (3)
  - SOW6612 - Clinical Practice with Families (3)
  - SOW6424 - Theories for Evidence-Based Clinical Practice in Social Work (3)

Electives
6 Total Credits

- Complete all of the following
  - Complete at least 2 of the following:
    - SOW6644 - Interventions with Older Adults and Their Families (3)
    - SOW6806 - Behavioral Health Skills for Clinical Social Workers (3)
    - SOW6604 - Medications in Social Work Practice (3)
    - SOW6670 - Clinical Social Work Practice with LGBTQ+ (3)
  - Two clinical electives are required as components of the clinical specialization. They are selected in consultation with adviser and Online MSW coordinator.

Field Experience
8 Total Credits

- Earn at least 8 credits from the following types of courses:
  Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge as well as to develop and refine foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar. Students must complete at least 50 percent of their field hours during the agency's normal business hours. Evening (after 5:00 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements. Many social work agencies have students complete background checks, including formal background checks, law enforcement fingerprinting, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may prevent you from being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made. The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks.

Grand Total Credits: 32
Track Details

The MSW Advanced Standing track allows no more than one C grade or 3 credit hours (whichever is greater) to be used toward the degree requirements. Exceeding three credit hours or one C grade is grounds for dismissal from the MSW Advanced Standing track.

Previous baccalaureate coursework that received at least a "B-") will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation-level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

Required Sequence of Curriculum

*The Online MSW is primarily an asynchronous program, which means that our courses are generally not held during a fixed meeting time. However, there are some courses where synchronous, or "live" sessions are a required component of the course assignments. Because an MSW is a professional degree that allows students to engage directly with clients, synchronous sessions are put in place to support student's skills and evaluation in this area. Some of the courses that may have required live components as part of an assignment include, but are not limited to SOW 6324 Clinical Social Work Practice with Groups and SOW 6433 Clinical Evaluation in Social Work Practice. Dates and times of live sessions will be announced before the course begins, or in some courses, multiple options are provided.

First Semester (Fall)
- SOW 6123 - Psychosocial Pathology 3 Credit Hours
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work 3 Credit Hours

Second Semester (Spring)
- SOW 6348 - Clinical Practice with Individuals 3 Credit Hours
- SOW 6612 - Clinical Practice with Families 3 Credit Hours
- SOW 6561 - Part-Time MSW Clinical Field Integrative Seminar I 2 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
  (2 credit hours)

Third Semester (Summer)
- SOW 6324 - Clinical Practice with Groups 3 Credit Hours
- Clinical Elective
- SOW 6562 - Part Time MSW Clinical Field Integrative Seminar II 1 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
  (1 credit hour)

Fourth Semester (Fall)
- SOW 6433 - Clinical Evaluation in Social Work Practice 3 Credit Hours
- Clinical Elective
- SOW 6563 - Part-Time MSW Clinical Field Integrative Seminar III 1 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
  (1 credit hour)

Transfer Credit
Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Due to the cohort nature of the track and university policy, transfer credits will not be considered for the market-based, fully online part-time Advanced Standing track.

Cost Per Credit Hour
For the Online Part-Time Social Work track in the Social Work MSW program, the cost per credit hour is $487.45.*

*Includes all university fees, which may be subject to change.

Tuition waivers are not accepted for the Online MSW.

Independent Learning
Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students. The field experiences and practice electives provide substantial opportunities for students to learn independently and practically about social work practice.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Social Work MSW - Social Work MSW, Online Part-Time Track

College

College of Health Professions and Sciences

Department

School of Social Work

Track Website

https://www.ucf.edu/online/degree/master-of-social-work-msw/

Track Handbook

Social Work MSW, Online Part-Time Track

Track Contact Information

Shellene Mazany, MSW, LCSW
Online MSW Director, Associate Instructor
Shellene.Mazany@ucf.edu
Telephone: 407-823-1089

Minoska Hernandez
Online MSW Admissions Specialist
Minoska.Hernandez@ucf.edu
Telephone: 407-823-4110

Is this track available 100% online?

Yes

UCF Online

Please note: Social Work (MSW) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf.

Track Description

The Online Master of Social Work (MSW) Part-Time Track is offered completely online and allows students who do not have a BSW degree to complete the MSW required curriculum online over the course of three years.

The first year of study in the Online Master of Social Work (MSW) Part-Time Track includes 18 credit hours in class work. The second year of study includes 18 credit hours in class work and 6 credit hours in the field. The third year of study includes 12 credit hours in class work and 8 credit hours in the field.

The MSW program strives to provide students with the education needed to become successful practitioners in the field of clinical social work. The National Association of Social Workers (NASW) Code of Ethics is enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

Students who apply for admission into the Online Part-Time Track will not be permitted to switch to the on-campus, face-to-face track due to the strict cohort model the track follows.

This track is completed entirely online and charges an enhanced tuition rate. As such, Online MSW students are not permitted to simultaneously enroll in any graduate or certificate programs through UCF. Please visit UCF Online for additional information about tuition and fees.

The 62-hour MSW program is composed of 39 credit hours of required core and advanced clinical specialization courses. In addition, students complete 9 credit hours of electives and 14 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers, and internships also contribute to the self-development of our students.

Total Credit Hours Required: 62 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

The Council on Social Work Education (CSWE) requires that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following areas:

- **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion)
- **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
- **Mathematics** (examples: calculus, college algebra, computer science, or statistics)
- **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- **One official transcript** (in a sealed envelope) from each college/university attended.
- **Successful completion** (with a grade of C or higher) at least one course in each of the following categories:
  - **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
  - **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology);
  - **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
  - **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- The GRE is not required for admission to this program.
- **Up-to-date résumé**
- **Three letters of recommendation** that must have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy, etc. WILL NOT be considered. Please submit your application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received, but they still must be submitted by the application deadline. Applicants must provide a letter of recommendation from each of the following:
  - **Academic**: A professor from a previously attended college/university who taught you in a course. Letters from Field Seminar Instructors are NOT accepted as an academic letter. Recommendations from full-time faculty are strongly encouraged. For applicants who have been out of college for five or more years, the applicant may substitute an employment-based recommendation. Letters from advisors will not be considered unless indicated that they also taught you as a student. Letters from Teacher Assistants are NOT accepted.
  - **Employment**: Letter from an immediate supervisor of either volunteer or paid work experience.
  - **Third recommendation**: A second academic or employment-based recommendation should be submitted for the third recommendation.
- **A Professional Statement**: Applicants must answer the following questions within 3-6 pages. Please use headings for each question.
Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?

What are your social work career interests?

What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?

Where do you see yourself 10 years from now in the field of social work?

What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?

As a social worker, you will be expected to practice ethically according to the National Association of Social Workers (NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?

The MSW program requires students to complete a clinical (600 hours) internship concurrent with their coursework. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.

**Writing Sample:** Applicants must submit an individually-authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. **Group papers will not be accepted.** The paper should be 5-10 pages in length, contain citations, and a reference list in APA format, and will be used to evaluate the applicant’s ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, policy analysis papers, and case studies will NOT be considered. If the applicant does not have an academic paper, then he/she must write a 5-10 page paper in APA format that addresses any social issue related to social work.

**Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.**

**Please note:** The MSW program only accepts one application from each prospective student per academic year (Fall, Spring, Summer). Applicants must choose to apply to one track and one semester only.

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

To be accepted into and retained in the program, students are expected to demonstrate initiative, dependability, social concern, self-awareness, appreciation for diversity in others, problem-solving ability, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions can be found in the MSW Student Handbook and define the minimal professional, cognitive, and behavioral abilities required for successful program completion as well as entry-level clinical social work practice. Students admitted into the MSW Program will sign an acknowledgment that they understand they must adhere to these functions in order to be in good standing and remain in the MSW Program.

**Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.**

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if, in the judgment of the faculty, the student demonstrates behaviors incongruent to working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics.

**Graduate Application Deadlines**

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<th>Online Part-Time</th>
<th><em>Fall Priority</em></th>
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<th>Spring</th>
<th>Summer</th>
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<td>International Applicants</td>
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</table>

**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**The Spring 2022 Application Deadline has been extended until December 1, 2021.**
Graduate School Contact
Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Core
21 Total Credits

- Complete the following:
  
  - SOW5107 - Human Behavior in the Social Environment (3)
  - SOW5107 - Human Behavior in the Social Environment (3)
  - SOW5217 - Foundations of Behavioral Health Policy and Social Work Practice (3)
  - SOW5235 - Social Welfare Policies and Services (3)
  - SOW5305 - Social Work Practice I: Generalist Practice (3)
  - SOW5306 - Social Work Practice II: Intervention Approaches (3)
  - SOW5404 - Social Work Research (3)

Clinical Specialization
18 Total Credits

- Complete the following:
  
  - SOW6123 - Psychosocial Pathology (3)
  - SOW6324 - Clinical Practice with Groups (3)
  - SOW6348 - Clinical Practice with Individuals (3)
  - SOW6612 - Clinical Practice with Families (3)
  - SOW6424 - Theories for Evidence-Based Clinical Practice in Social Work (3)
  - SOW6433 - Clinical Evaluation in Social Work Practice (3)

Electives
9 Total Credits

- Complete at least 3 of the following:
  
  - SOW6155 - Human Sexuality in Social Work Practice (3)
  - SOW6652 - Child Welfare Services (3)
  - SOW6603 - Social Work in Health Settings (3)
  - SOW6604 - Medications in Social Work Practice (3)
  - SOW6610 - Clinical Practice with Military and Veteran Families or Groups (3)
  - SOW6644 - Interventions with Older Adults and Their Families (3)
  - SOW6670 - Clinical Social Work Practice with LGBTQ+ (3)
  - SOW6712 - Clinical Social Work Practice with Substance Addictions (3)
  - SOW6735 - Documentation Skills for Helping Professionals (3)
  - SOW6806 - Behavioral Health Skills for Clinical Social Workers (3)

Field Experience
14 Total Credits

- Earn at least 14 credits from the following types of courses:

  Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge as well as to develop and refine foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Generalist MSW students complete a minimum of 400 hours in the field; clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar. Students must complete at least 50% of their field hours during the agency's normal business hours. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements. Many social work agencies have students complete background checks, including formal background checks, law enforcement finger printing, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may prevent you from being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made. The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks. Generalist Field Education and Seminars (6 credit hours) Clinical field Education and Seminars (8 credit hours)

Grand Total Credits: 62

Track Details

Students in the 62-hour program must include at least 31 hours of course work at the 6000 level in their program of study.

Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

Required Sequence of Curriculum

*The Online MSW is primarily an asynchronous program, which means that our courses are generally not held during a fixed meeting time. However, there are some courses where synchronous, or "live" sessions are a required component of the course assignments. Because an MSW is a professional degree that allows students to engage directly with clients, synchronous sessions are put in place to support student’s skills and evaluation in this area.
Some of the courses that may have required live components as a part of an assignment include, but are not limited to SOW 5306 Social Work Practice II, SOW 6324 Clinical Social Work Practice with Groups, and SOW 6433 Clinical Evaluation in Social Work Practice. Dates and times of live sessions will be announced before the course begins, or in some courses, multiple options are provided.

+Depending on the term in which you enter the Online MSW, your final year of the program may show classes in a different sequence. A Plan of Study will be provided to you prior to the beginning of classes with the correct sequence for your cohort.

**First Semester**
- Term 1.1 - SOW 5107 - Human Behavior in the Social Environment [3 Credit Hours]
- Term 1.2 - SOW 5132 - Diverse Client Populations [3 Credit Hours]

**Second Semester**
- Term 2.1 - SOW 5235 - Social Welfare Policies and Services [3 Credit Hours]
- Term 2.2 - SOW 5404 - Social Work Research [3 Credit Hours]

**Third Semester**
- Term 3.1 - SOW 5305 - Social Work Practice I: Generalist Practice [3 Credit Hours]
- Clinical Elective - Term 3.2

**Fourth Semester**
- Term 4.1 - SOW 5306 - Social Work Practice II: Intervention Approaches [3 Credit Hours]
- Term 4.2 - SOW 6433 - Clinical Evaluation in Social Work Practice [3 Credit Hours]
- SOW 5565 - Part-Time MSW Generalist Field Integrative Seminar I 1 Credit Hours
- SOW 5940 - Generalist Field Education VAR Credit Hours
  Take 1 credit hour

**Fifth Semester**
- Term 5.1 Clinical Elective
- SOW 5217 - Foundations of Behavioral Health Policy and Social Work Practice [3 Credit Hours]
- SOW 5566 - Part-Time MSW Generalist Field Integrative Seminar II 1 Credit Hours
- SOW 5940 - Generalist Field Education VAR Credit Hours
  Take 1 credit hour

**Sixth Semester**
- Term 6.1 - SOW 6123 - Psychosocial Pathology [3 Credit Hours]
- Term 6.2 - SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work [3 Credit Hours]
- SOW 5567 - Part-Time MSW Generalist Field Integrative Seminar III 1 Credit Hours
- SOW 5940 - Generalist Field Education VAR Credit Hours
  Take 1 credit hour

**Seventh Semester+**
- Term 7.1 - SOW 6348 - Clinical Practice with Individuals [3 Credit Hours]
- Term 7.2 - SOW 6612 - Clinical Practice with Families [3 Credit Hours]
- SOW 6561 - Part-Time MSW Clinical Field Integrative Seminar I 2 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours

**Eighth Semester+**
- Term 8.1 - SOW 6324 - Clinical Practice with Groups [3 Credit Hours]
- Term 8.2 Clinical Elective
- SOW 6562 - Part Time MSW Clinical Field Integrative Seminar II 1 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours

**Ninth Semester+**
- SOW 6563 - Part-Time MSW Clinical Field Integrative Seminar III 1 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours

**Transfer Credit**
Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Due to the cohort nature of the track and university policy, transfer credits will not be considered for the market-based, fully online part-time MSW track.

**Cost Per Credit Hour**
For the Online Part-Time Social Work track in the Social Work MSW program, the cost per credit hour is $487.45.*

2021-2022 Graduate Catalog
Tuition waivers are not accepted for the Online MSW.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students. The field experiences and practice electives provide substantial opportunities for students to learn independently and practically about social work practice.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Social Work MSW - Social Work MSW, Part-Time Advanced Standing Track

College

College of Health Professions and Sciences

Department

School of Social Work

Track Website

https://healthprofessions.ucf.edu/socialwork/

Track Handbook

Social Work MSW, Part-Time Advanced Standing Track

Track Contact Information

Maxine McGregor, MSW, MS
Instructor, MSW Program Director
maxine.mcgregor@ucf.edu
Telephone: 407-823-3037
HS 1, Suite 233

mswadmissions@ucf.edu
Telephone: 407-823-3474
HS 1, Suite 236

Is this track available 100% online?

No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf
**Track Description**

The Master of Social Work (MSW) Program, Part-Time Advanced Standing Track allows students with baccalaureate degrees in Social Work from a CSWE-accredited school/program who demonstrate academic potential and professional maturity to complete the MSW degree at the main campus in four semesters of graduate study.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program. The Part-Time Advanced Standing Track is offered at the main campus and may be completed in four semesters (summer, fall, spring, and summer).

The MSW program strives to provide students with the education needed to become successful practitioners in the field of clinical social work. The National Association of Social Workers (NASW) Code of Ethics is enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

The 32-hour MSW program is composed of 18 credit hours of required core and advanced clinical specialization courses. In addition, students complete 6 credit hours of electives and 8 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

**Total Credit Hours Required: 32 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

The Council on Social Work Education (CSWE) require that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following categories:

- **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
- **Physical and Biological sciences** (examples: biology, chemistry, anatomy, or physiology)
- **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
- **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- **One official transcript** (in a sealed envelope) from each college/university attended.
- **Successful completion** (with a grade of C or higher) at least one course in each of the following categories:
  - **Humanities** (examples: fine arts, history, languages, literature, philosophy, or religion);
  - **Physical and Biological Sciences** (examples: biology, chemistry, anatomy, or physiology)
  - **Mathematics** (examples: calculus, college algebra, computer science, or statistics);
  - **Social Sciences** (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- **Up-to-date résumé**
- **Video Essay**
- **Three letters of recommendation** that must have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy, etc. WILL NOT be considered. Please submit your application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received, but they still must be submitted by the application deadline. Applicants must provide a letter of recommendation from each of the following:
  - **Academic**: A professor from a previously attended college/university who taught you in a course. Letters from Field Seminar Instructors are NOT accepted as an academic letter. Recommendations from full-time faculty are strongly encouraged. For applicants who have been out of college for five or more years, the applicant may substitute an employment-based recommendation. Letters from advisors will not be considered unless indicated that they also taught you as a student. Letters from Teacher Assistants are NOT accepted.
  - **Field**: An agency field task supervisor who has directly supervised the applicant in a social work field internship setting.
  - **Employment**: Either volunteer or paid employment immediate supervisor.
- **A Professional Statement**: Applicants must answer the following questions within 3-6 pages. Please use headings for each question.
  - Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?
  - What are your social work career interests?
  - What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?
  - Where do you see yourself 10 years from now in the field of social work?
  - What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?
  - As a social worker, you will be expected to practice ethically according to the National Association of Social Workers...
NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?

- The MSW program requires students to complete a clinical (600 hours) internship concurrent with their coursework. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.

- **Writing Sample**: Applicants must submit an individually-authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. **Group papers will not be accepted. The paper should be 5-10 pages in length, contain citations, and a reference list in APA format**, and will be used to evaluate the applicant's ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, policy analysis papers, and case studies will NOT be considered. If the applicant does not have an academic paper, then he/she must write a 5-10 page paper in APA format that addresses any social issue related to social work.

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

**Please note**: The MSW program only accepts one application from each prospective student per academic year (Fall, Spring, Summer). Applicants must choose to apply to one track and one semester only.

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Students are admitted and can begin coursework in summer semesters only.

To be retained in the program, a student must attend the mandatory MSW Program Orientation that takes place the week before summer classes start. Students who fail to attend this orientation will have their offer of admission rescinded.

To be accepted into and retained in the program, students are expected to demonstrate: initiative, dependability, social concern, self-awareness, appreciation for diversity in others, the ability to problem-solve, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions can be found in the MSW Handbook and define the minimal professional, cognitive, and behavioral abilities required for successful program completion as well as entry-level clinical social work practice. Students admitted into the MSW Program will sign an acknowledgment that they understand they must adhere to these functions in order to be in good standing and remain in the MSW Program.

**Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.**

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if, in the judgment of the faculty, the student demonstrates behavior incompatible with working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics.

**Advanced Standing**

To be considered for advanced standing admission, applicants must have a baccalaureate degree in Social Work from a CSWE-accredited program and demonstrate the academic potential and professional maturity to meet the demands of the program with a 3.3 GPA in their last 60 credits. Previous baccalaureate course work that received at least a "B-" will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

To be considered for advanced standing admission, the bachelor's degree must have been completed within six years of the time of initial enrollment in the master's program.

**Graduate Application Deadlines**

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</tbody>
</table>

**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*

2021-2022 Graduate Catalog
**Graduate School Contact**

**Grace Guilliams**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
**Degree Requirements**

Clinical Specialization
18 Total Credits

- Complete the following:
  - SOW6123 - Psychosocial Pathology (3)
  - SOW6433 - Clinical Evaluation in Social Work Practice (3)
  - SOW6324 - Clinical Practice with Groups (3)
  - SOW6348 - Clinical Practice with Individuals (3)
  - SOW6612 - Clinical Practice with Families (3)
  - SOW6424 - Theories for Evidence-Based Clinical Practice in Social Work (3)

Electives
6 Total Credits

- Complete at least 2 of the following:
  - SOW6149 - Military Culture and Social Work Practice (3)
  - SOW6109 - Violence Against Women: A Global Perspective (3)
  - SOW6155 - Human Sexuality in Social Work Practice (3)
  - SOW6383 - Social Work Administration (3)
  - SOW6603 - Social Work in Health Settings (3)
  - SOW6604 - Medications in Social Work Practice (3)
  - SOW6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders (3)
  - SOW6610 - Clinical Practice with Military and Veteran Families or Groups (3)
  - SOW6635 - Social Work Practice in Schools (3)
  - SOW6644 - Interventions with Older Adults and Their Families (3)
  - SOW6652 - Child Welfare Services (3)
  - SOW6655 - Child Abuse: Treatment and Prevention (3)
  - SOW6670 - Clinical Social Work Practice with LGBTQ+ (3)
  - SOW6712 - Clinical Social Work Practice with Substance Addictions (3)
  - SOW6713 - Prevention and Treatment of Adolescent Substance Use and Misuse (3)
  - SOW6726 - Social Work Practice with Children from Birth to Age Five and their Families (3)
  - SOW6727 - Core Concepts of Child and Adolescent Trauma (3)
  - SOW6735 - Documentation Skills for Helping Professionals (3)
  - SOW6756 - Forensic Social Work (3)
  - SOW6806 - Behavioral Health Skills for Clinical Social Workers (3)
  - SOW6846 - Spirituality in Clinical Social Work Practice (3)

Field Experience
8 Total Credits

- Earn at least 8 credits from the following types of courses:
  Clinical Field Education and Integrative Seminars 8 Credit Hours Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge as well as to develop and refine foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar. Students must complete at least 50% of their field hours during the agency's normal business hours. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements. Many social work agencies have students complete background checks, including formal background checks, law enforcement finger printing, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may prevent you from being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made. The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks.

Grand Total Credits: 32
Track Details

The MSW Advanced Standing track allows no more than one C grade or 3 credit hours (whichever is greater) to be used toward the degree requirements. Exceeding three credit hours or one C grade is grounds for dismissal from the MSW Advanced Standing track.

Previous baccalaureate coursework that received at least a "B-" will be reviewed to ensure content equivalency. In advanced standing admission, a maximum of 30 foundation-level credits may be waived based on the content equivalency to meet foundation year MSW requirements, which consist of courses in human behavior and the social environment, policy, research, social work practice, and social work field placement.

Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE.

Required Sequence of Curriculum

First Semester (Summer)
- SOW 6123 - Psychosocial Pathology 3 Credit Hours
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work 3 Credit Hours

Second Semester (Fall)
- SOW 6348 - Clinical Practice with Individuals 3 Credit Hours
- SOW 6612 - Clinical Practice with Families 3 Credit Hours
- SOW 6561 - Part-Time MSW Clinical Field Integrative Seminar I 2 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
  Take 2 credit hours

Third Semester (Spring)
- SOW 6433 - Clinical Evaluation in Social Work Practice 3 Credit Hours
- SOW 6562 - Part Time MSW Clinical Field Integrative Seminar II 1 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
  Take 1 credit hour
- SOW 6XXX Clinical Elective

Fourth Semester (Summer)
- SOW 6324 - Clinical Practice with Groups 3 Credit Hours
- SOW 6563 - Part-Time MSW Clinical Field Integrative Seminar III 1 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
  Take 1 credit hour
- SOW 6XXX Clinical Elective

Transfer Credit

Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Students who have completed coursework in an accredited MSW program may transfer up to 9 credit hours of non-field coursework toward the 32 credit hours of the degree. Students must have received a grade of "B-" or higher in these courses. Courses will be evaluated on a course-by-course basis by the MSW Director. Field classes are not eligible for transfer. Students seeking to transfer to the School of Social Work from another CSWE accredited social work program are required to meet the criteria for admission and follow the application procedures. Additionally, one of the academic references must be from the MSW Program Coordinator or academic adviser in the program from which the applicant is transferring and must address the academic standing in that program. If not currently enrolled, the reference must be from the former MSW Program Director or academic adviser. Syllabi are required for any social work classes being considered for transfer credit.

As per university policy, transfer credits will not be considered for the market based fully online part time track.

Equipment Fee

Full-time students in the MSW program pay a $35 equipment fee each semester that they are enrolled.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students. The field experiences and practice electives provide substantial opportunities for students to learn independently and practically about social work practice.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Social Work MSW - Social Work MSW, Part-Time Traditional Track

College

College of Health Professions and Sciences

Track Website

https://healthprofessions.ucf.edu/socialwork/

Track Handbook

Social Work MSW, Part-Time Traditional Track

Track Contact Information

Maxine McGregor, MSW, MS
Instructor, MSW Program Director
maxine.mcgregor@ucf.edu
Telephone: 407-823-3037
HS 1, Suite 233

mswadmissions@ucf.edu
Telephone: 407-823-3474
HS 1, Suite 236

Is this track available 100% online?

No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-CHPS-Social-Work-MSW.pdf.
Track Description

The Master of Social Work (MSW) Program, Part-Time Traditional Track allows students who do not have a BSW degree to complete the MSW required curriculum at the main campus.

The first year of study in the Master of Social Work (MSW) Program, Part-Time Traditional Track includes 18 credit hours in classwork. The second year of study includes 18 credit hours in classwork and 6 credit hours in the field. The third year of study includes 12 credit hours in classwork and 8 credit hours in the field.

The MSW program strives to provide students with the education needed to become successful practitioners in the field of clinical social work. The National Association of Social Workers (NASW) Code of Ethics is enforced throughout the academic curriculum. Students who violate the NASW Code of Ethics may be subject to academic sanctions or dismissed from the program.

The 62-hour MSW program is composed of 39 credit hours of required core and advanced clinical specialization courses. In addition, students complete 9 credit hours of electives and 14 credit hours of field experience. Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

Total Credit Hours Required: 62 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

The Council on Social Work Education (CSWE) require that all applicants have an undergraduate degree from an accredited institution. The School of Social Work requires that applicants have successfully completed (with a grade of C or higher) at least one course in each of the following categories:

- Humanities (examples: fine arts, history, languages, literature, philosophy, or religion)
- Physical and Biological sciences (examples: biology, chemistry, anatomy, or physiology)
- Mathematics (examples: calculus, college algebra, computer science, or statistics)
- Social Sciences (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants will be granted admission to the MSW program based on a majority approval from the Admissions Review Sub-committee.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Successful completion (with a grade of C or higher) at least one course in each of the following categories:
  - Humanities (examples: fine arts, history, languages, literature, philosophy, or religion)
  - Physical and Biological sciences (examples: biology, chemistry, anatomy, or physiology)
  - Mathematics (examples: calculus, college algebra, computer science, or statistics)
  - Social Sciences (examples: anthropology, economics, ethnic studies, gender studies, human development, international relations, political science, psychology, social work, or sociology)
- The GRE is not required for admission to this program.
- Up-to-date résumé
- Video Essay
- Three letters of recommendation that must have been written within the last academic year. Letters from co-workers, colleagues, mentors, friends, family members, clergy, etc. WILL NOT be considered. Please submit your application even if you do not have your letters of recommendation. These letters can be attached to your application once they have been received, but they still must be submitted by the application deadline. Applicants must provide a letter of recommendation from each of the following:
  - Academic: A professor from a previously attended college/university who taught you in a course. Letters from Field Seminar Instructors are NOT accepted as an academic letter. Recommendations from full-time faculty are strongly encouraged. For applicants who have been out of college for five or more years, the applicant may substitute an employment-based recommendation. Letters from advisors will not be considered unless indicated that they also taught you as a student. Letters from Teacher Assistants are NOT accepted.
  - Employment: Either volunteer or paid employment immediate supervisor.
  - Third recommendation: A second academic or employment-based recommendation should be submitted for the third recommendation.
- A Professional Statement: Applicants must answer the following questions within 3-6 pages. Please use headings for each question.
  - Without disclosing personal information, what are the reasons and experiences that led you to choose social work as a profession?
  - What are your social work career interests?
  - What are your personal strengths that you can bring to this profession? How have these strengths been demonstrated in the past?
  - Where do you see yourself 10 years from now in the field of social work?
  - What major social issue do you think that professional social workers should be concerned with? What is the role of social work in relation to this issue?
  - As a social worker, you will be expected to practice ethically according to the National Association of Social Workers (NASW) Code of Ethics. This includes working with diverse populations and clients whose values and beliefs may differ
from your own. How will you incorporate and uphold the NASW Code of Ethics into your work with diverse populations?

- The MSW program requires students to complete a clinical (600 hours) internship concurrent with their coursework. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Given the above considerations, please tell us how you plan to balance your internship hours with your coursework and personal obligations. Tell us about any challenges you may have and how you plan to overcome them.

- **Writing Sample**: Applicants must submit an individually-authored research paper or literature review written for any class in their undergraduate studies, preferably one that is related to social work. **Group papers will not be accepted. The paper should be 5-10 pages in length, contain citations, and a reference list in APA format,** and will be used to evaluate the applicant's ability to write professionally. The applicant must be the sole author of this paper. Submissions of papers where the applicant is co-author will not be considered. Interviews, book reviews, movie reviews, case notes, client assessments, policy analysis papers, and case studies will NOT be considered. If the applicant does not have an academic paper, then he/she must write a 5-10 page paper in APA format that addresses any social issue related to social work.

- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

**Please note:** The MSW program only accepts one application from each prospective student per academic year. Applicants must choose to apply to one track and one semester only.

The Master of Social Work program can accommodate only a limited number of students; therefore, there is a possibility of being denied admission even when all criteria are met.

Students admitted will begin coursework in the fall semester only.

To be retained in the program, students must attend the mandatory MSW Program Orientation that takes place the week before fall classes start. Students who fail to attend this orientation will have their offer of admission rescinded.

To be accepted into and retained in the program, students are expected to demonstrate: initiative, dependability, social concern, self-awareness, appreciation for diversity in others, the ability to problem-solve, ease in relating with others, skill in writing and speaking, and professional ethics.

Students enrolled must perform certain essential functions in order to participate in and complete program requirements. These essential functions can be found in the MSW Handbook—which students must read prior to beginning their plan of study. These essential functions define the minimal professional, cognitive, and behavioral abilities required for successful program completion, as well as entry-level clinical social work practice. Students admitted into the MSW Program will sign an acknowledgment that they understand they must adhere to these functions in order to be in good standing and remain in the MSW Program.

**Students unable to meet the Essential Functions requirement will have their offer of admission rescinded.**

The School of Social Work reserves the right to refuse student entrance or dismiss a student after admission to the MSW program if, in the judgment of the faculty, the student demonstrates behavior incompatible with working in the field of social work and/or violates the National Association of Social Workers (NASW) Code of Ethics.

MSW graduates from CSWE accredited programs outside of UCF who need to complete a field placement for Florida licensure (LCSW) must apply to the MSW program as a full-time or part-time second-year clinical student.

**Graduate Application Deadlines**

<table>
<thead>
<tr>
<th>Part-Time Traditional</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tbody>
<tr>
<td>Domestic Applicants</td>
<td>Jan 15</td>
<td>Jul 1</td>
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<tr>
<td>International Applicants</td>
<td>Jan 15</td>
<td>Jan 15</td>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
Degree Requirements

Core
21 Total Credits

- Complete the following:
  - SOW5107 - Human Behavior in the Social Environment (3)
  - SOW5217 - Foundations of Behavioral Health Policy and Social Work Practice (3)
  - SOW5132 - Diverse Client Populations (3)
  - SOW5235 - Social Welfare Policies and Services (3)
  - SOW5305 - Social Work Practice I: Generalist Practice (3)
  - SOW5306 - Social Work Practice II: Intervention Approaches (3)
  - SOW5404 - Social Work Research (3)

Clinical Specialization
18 Total Credits

- Complete the following:
  - SOW6123 - Psychosocial Pathology (3)
  - SOW6324 - Clinical Practice with Groups (3)
  - SOW6324 - Clinical Practice with Groups (3)
  - SOW6612 - Clinical Practice with Families (3)
  - SOW6424 - Theories for Evidence-Based Clinical Practice in Social Work (3)
  - SOW6433 - Clinical Evaluation in Social Work Practice (3)

Electives
9 Total Credits

- Complete 1 of the following
  - One elective is required as a component of the foundation curriculum and two clinical electives are required as components of the clinical specialization. Students may choose to take clinical electives for all three required MSW electives. Clinical elective 3 Credit Hours Clinical elective 3 Credit Hours Practice/ Non-Clinical or Clinical elective 3 Credit Hours
    - All Clinical Elective Option
- Complete at least 3 of the following:
  - SOW6149 - Military Culture and Social Work Practice (3)
  - SOW6109 - Violence Against Women: A Global Perspective (3)
  - SOW6149 - Military Culture and Social Work Practice (3)
  - SOW6603 - Social Work in Health Settings (3)
  - SOW6604 - Medications in Social Work Practice (3)
  - SOW6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders (3)
  - SOW6610 - Clinical Practice with Military and Veteran Families or Groups (3)
  - SOW6635 - Social Work Practice in Schools (3)
  - SOW6644 - Interventions with Older Adults and Their Families (3)
  - SOW6652 - Child Welfare Services (3)
  - SOW6655 - Child Abuse: Treatment and Prevention (3)
  - SOW6670 - Clinical Social Work Practice with LGBTQ+ (3)
  - SOW6712 - Clinical Social Work Practice with Substance Addictions (3)
  - SOW6713 - Prevention and Treatment of Adolescent Substance Use and Misuse (3)
  - SOW6726 - Social Work Practice with Children from Birth to Age Five and their Families (3)
  - SOW6727 - Core Concepts of Child and Adolescent Trauma (3)
  - SOW6735 - Documentation Skills for Helping Professionals (3)
  - SOW6756 - Forensic Social Work (3)
  - SOW6806 - Behavioral Health Skills for Clinical Social Workers (3)

2021-2022 Graduate Catalog
- SOW6846 - Spirituality in Clinical Social Work Practice (3)

Practice/ Non-Clinical and Clinical Elective Option

Complete all of the following:

- Complete the following:
  - SOW6383 - Social Work Administration (3)
  - Earn at least 6 credits from the following types of courses:
    - Clinical Elective Courses listed above

Field Experience

14 Total Credits

- Earn at least 14 credits from the following types of courses:
  - Generalist Field Education and Integrative Seminars 6 Credit Hours
  - Clinical Field Education and Integrative Seminars 8 Credit Hours

Field instruction is an integral part of graduate social work education. It provides the student with an opportunity to test classroom knowledge as well as to develop and refine foundation and advanced practice skills. Decisions regarding field assignment are determined by the Field Director. Only agency sites approved by the School of Social Work may be used for field instruction. Generalist MSW students complete a minimum of 400 hours in the field; clinical MSW students complete a minimum of 600 clock hours in the field. Field education includes a field seminar. Students must complete at least 50% of their field hours during the agency's normal business hours. Evening (after 5 p.m.) and weekend placements are extremely limited. The School of Social Work is under no obligation to provide such placements. Consequently, field placements cannot be guaranteed to students who require evening and weekend placements. Many social work agencies have students complete background checks, including formal background checks, law enforcement fingerprinting, driving records, and criminal record checks. In most instances, the expense for the background check is the responsibility of the student. We urge students to seek this information prior to entering the field experience if there is sensitive information that may prevent you from being accepted at an agency. Students must also report any background issues on field application so that an appropriate placement can be made. The UCF School of Social Work cannot guarantee a field placement or subsequent degree completion for students who do not pass background checks.

Grand Total Credits: 62

Track Details

Students in the 62-hour program must include at least 31 hours of course work at the 6000 level in their program of study.

Educational standards for all social work programs are established by the Council on Social Work Education (CSWE), the national accreditation body for professional social work education. Curriculum direction and content is regulated by the CSWE through its accreditation standards. The MSW program at UCF is fully accredited through CSWE. Required Sequence of Curriculum

First Semester (Fall)

- SOW 5107 - Human Behavior in the Social Environment 3 Credit Hours
- SOW 5132 - Diverse Client Populations 3 Credit Hours

Second Semester (Spring)

- SOW 5404 - Social Work Research 3 Credit Hours
- SOW 5217 - Foundations of Behavioral Health Policy and Social Work Practice 3 Credit Hours

Third Semester (Summer)

- SOW 5305 - Social Work Practice I: Generalist Practice 3 Credit Hours
- SOW Elective (Clinical or Non-Clinical)

Fourth Semester (Fall)

- SOW 5306 - Social Work Practice II: Intervention Approaches 3 Credit Hours
- SOW 5235 - Social Welfare Policies and Services 3 Credit Hours
- SOW 5565 - Part-Time MSW Generalist Field Integrative Seminar I 1 Credit Hours
- SOW 5940 - Generalist Field Education VAR Credit Hours

Take 1 credit hour

Fifth Semester (Spring)

- SOW 5940 - Generalist Field Education VAR Credit Hours

Take 1 credit hour

- SOW 5566 - Part-Time MSW Generalist Field Integrative Seminar II 1 Credit Hours
- SOW Clinical Elective

Sixth Semester (Summer)

- SOW 5567 - Part-Time MSW Generalist Field Integrative Seminar III 1 Credit Hours
- SOW 5940 - Generalist Field Education VAR Credit Hours

Take 1 credit hour

2021-2022 Graduate Catalog
- SOW 6424 - Theories for Evidence-Based Clinical Practice in Social Work 3 Credit Hours
- SOW 6123 - Psychosocial Pathology 3 Credit Hours

Seventh Semester (Fall)
- SOW 6348 - Clinical Practice with Individuals 3 Credit Hours
- SOW 6612 - Clinical Practice with Families 3 Credit Hours
- SOW 6561 - Part-Time MSW Clinical Field Integrative Seminar I 2 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
  
  Take 2 credit hours

Eighth Semester (Spring)
- SOW Clinical Elective
- SOW 6433 - Clinical Evaluation in Social Work Practice 3 Credit Hours
- SOW 6562 - Part Time MSW Clinical Field Integrative Seminar II 1 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
  
  Take 1 credit hour

Ninth Semester (Summer)
- SOW 6324 - Clinical Practice with Groups 3 Credit Hours
- SOW 6563 - Part-Time MSW Clinical Field Integrative Seminar III 1 Credit Hours
- SOW 6940 - Clinical Field Education VAR Credit Hours
  
  Take 1 credit hour

Transfer Credit

Academic credit for life experience and previous work experience shall not be given, in whole or in part, in lieu of Social Work courses required to fulfill degree requirements.

Transfer credits will be evaluated on a case by case basis by the MSW Program Director. Students must submit syllabi and have earned a grade of "B-" or better in these courses in order for them to be evaluated for transfer credit.

Field courses taken elsewhere cannot be transferred toward satisfying the field component of the degree.

Students seeking to transfer to the School of Social Work from another CSWE accredited social work program are required to meet the criteria for admission and follow the application procedures. Additionally, one of the academic references must be from the MSW Program Coordinator or academic adviser in the program from which the applicant is transferring and must address the academic standing in that program. If not currently enrolled, the reference must be from the former MSW Program Director or academic adviser.

Equipment Fee

Full-time students in the MSW program pay a $35 equipment fee each semester that they are enrolled.

Independent Learning

Independent learning is demonstrated throughout the curriculum through the process of inquiry and dialogue. Projects such as research studies, clinical assessments and treatment plans, papers and internships also contribute to the self-development of our students.

The field experiences and practice electives provide substantial opportunities for students to learn independently and practically about social work practice.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

College of Medicine

Biomedical Sciences MS

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Program Website
https://med.ucf.edu/biomed/graduate-programs/

Program Handbook
Biomedical Sciences MS

Program Contact Information
Saleh Naser PhD
Professor
saleh.naser@ucf.edu
UCF College of Medicine

Is this program available 100% online?
No

Program Description
The Master of Science in Biomedical Sciences program is a nonthesis program for students who wish to further their knowledge in the field and prepare for professional careers in medical fields, higher education, and research. Students interested in research and thesis work should apply to the Master of Science in Biotechnology program.

This degree has 5 tracks: Cancer Biology Track, Infectious Disease Track, Integrated Medical Sciences Track, Metabolic and Cardiovascular Sciences Track, and Neuroscience Track. Please scroll to the bottom of this page for further details on these Tracks.

While many students discover that they have interests in varied disciplines at the University of Central Florida, they are not permitted to pursue two majors within the College of Medicine. College of Medicine students may declare a major and a minor within the college, or pursue a second major or minor in another academic college at UCF. Students are encouraged to meet with an academic advisor to discuss these opportunities.

Program Prerequisites
A bachelor's degree in Biological Sciences or related area.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV.

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

Graduate Application Deadlines

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<thead>
<tr>
<th>Biomedical Sciences MS</th>
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<td>Domestic Applicants</td>
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<tr>
<td>International Applicants</td>
<td>Jan 1</td>
<td>Jan 1</td>
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</tr>
</tbody>
</table>

Application Deadlines Notes

The Fall 2022 application deadline has been extended to:

- January 15, 2022 - International Applicants
- February 1, 2022 - Domestic Applicants

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete all of the following
  - Complete the following:
    - ZOO6737 - Clinically Oriented Human Anatomy (4)
    - MCB6226 - Molecular Diagnostics (3)
    - PCB6595 - Regulation of Gene Expression (3)
    - PHIS634 - Medical Ethics (3)
  - Complete at least 1 of the following:
    - BSC6407C - Laboratory Methods in Molecular Biology (3)

2021-2022 Graduate Catalog
BSC5418 - Tissue Engineering (3)

- Complete 1 of the following
  - Earn at least 2 credits from the following types of courses:
    - MCB 6938 - Seminar 1 Credit Hour (to be repeated)
  - Earn at least 2 credits from the following types of courses:
    - MCB 6938 - Seminar 1 Credit Hour
    - MCB 6314 - Industrial Perspectives Seminar 1 Credit Hours

Elective Courses
12 Total Credits

- Complete all of the following
  - Biomedical Specialization
    - Complete all of the following
      - Earn at least 6 credits from the following:
        - BSC5418 - Tissue Engineering (3)
        - MCB6226 - Molecular Diagnostics (3)
        - PCB5238 - Immunobiology (3)
        - PCB5236 - Cancer Biology (3)
        - PCB5275 - Signal Transduction Mechanics (3)
        - PCB5527 - Genetic Engineering and Biotechnology (3)
        - PCB5709C - Laboratory Virtual Simulations in Physiology (3)
        - PCB5815 - Molecular Aspects of Obesity, Diabetes and Metabolism (3)
        - PCB5834C - Advanced Human Physiology (4)
        - IDS5127 - Foundation of Bio-Imaging Science (3)
        - PCB5265 - Stem Cell Biology (3)
        - GEB5516 - Technological Entrepreneurship (3)

- Others: If approved by Graduate Committee

Microbiology Specialization

- Complete all of the following
  - Earn at least 6 credits from the following:
    - MCB5205 - Infectious Processes (3)
    - MCB5505 - Molecular Virology (3)
    - MCB5208 - Cellular Microbiology: Host-Pathogen Interactions (3)
    - MCB6417C - Microbial Metabolism (3)
    - MCB5932 - Current Topics in Molecular Biology (1 - 99)
    - MCB5415 - Cellular Metabolism (3)
    - MCB5209 - Microbial Stress Response (3)
    - PCB6595 - Regulation of Gene Expression (3)
    - PCB5235 - Molecular Immunology (3)

- Others: If approved by Graduate Committee

Capstone
3 Total Credits

- Complete all of the following
  - Complete the following:
    - MCB6026 - Molecular Biology and Microbiology Capstone (3)

- An in-depth current literature research report on a relevant subject will be required for each student. The student will select a faculty adviser to chair a faculty committee of two members for the evaluation of the report. An oral presentation on the written capstone report will be used as a final examination.

Capstone Process

- Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student's interest. The student and the mentor should select one additional faculty members to serve on the capstone evaluation committee. Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must be submitted to the Program Office. When the student is ready to defend the Capstone project, the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.

Capstone Report

- Evaluation of the capstone project requires a written report (in the format of a mini-review manuscript) and a presentation (project defense) in front of the capstone committee. Students may ask for advice and guidance from the project mentor/chair. The average capstone report ranges from 10 to 15 single-spaced pages in a manuscript format with proper citations. The student's Committee Chair will be responsible for checking the report for plagiarism using iThenticate before the report is shared with the committee. The committee must receive the report at least one week before the time of presentation.

Capstone Defense

- Note: The defense (presentation) must be held no later than one week before the final exam week. The capstone defense and comprehensive exam evaluation is designed to assess the student's knowledge and understanding of the project and other relevant subjects in the field. Questions asked by the capstone committee to evaluate the student as competent in the field will satisfy the requirement of the comprehensive exam. The oral presentation will take place in the form of a 30-40 minute seminar and will be followed by questions and discussion. The student will be evaluated.
on performance in all three sections (written report, oral presentation, and ability to answer questions). Should the student fail, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in an Unsatisfactory (U) grade in the course and dismissal from the program.

Comprehensive Exam
0 Total Credits
- Students must pass an oral comprehensive exam to qualify for the Master of Science. The oral comprehensive exam tests the student’s understanding of the basic concepts in the field and relevant applications. The comprehensive exam will be conducted during the capstone defense and will be administered by the capstone committee. Should the student fail this exam, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in dismissal from the program.

Teaching Requirement
0 Total Credits
- Students without significant prior teaching experience, such as but not limited to, a minimum of a year in secondary schools or colleges, are required to serve as Classroom Laboratory Teaching Assistants for a minimum of one semester (one semester in at least one lab section).

Research Shadowing (Optional)
0 Total Credits
- Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

Independent Learning
0 Total Credits
- In the final semester of study, nonthesis students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.

Grand Total Credits: 33

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
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Biomedical Sciences MS - Biomedical Sciences MS, Cancer Biology Track

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences
**Track Website**
https://med.ucf.edu/biomed/graduate-programs/

**Track Handbook**
Biomedical Sciences MS - Cancer Biology Track

**Track Contact Information**
Saleh Naser PhD
Professor
saleh.naser@ucf.edu

**Is this track available 100% online?**
No

**Track Description**
The Cancer Biology Track in the Master of Science in Biomedical Sciences Program is a nonthesis plan of study for students who want to further their knowledge in the cancer biology field and who may pursue doctoral training or professional education focused on medicine and cancer biology. Students interested in research and thesis work should apply to the Master of Science in Biotechnology Program.

**Track Prerequisites**
A bachelor's degree in Biological Sciences or related area.
Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

**Application Requirements**
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV.

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

**Graduate Application Deadlines**

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**Application Deadlines Notes**
The Fall 2022 application deadline has been extended to:

- January 15, 2022 - International Applicants
- February 1, 2022 - Domestic Applicants

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact
Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete all of the following
  - Complete the following:
    - ZOO6737 - Clinically Oriented Human Anatomy (4)
    - MCB6226 - Molecular Diagnostics (3)
    - PCB6595 - Regulation of Gene Expression (3)
    - PCB5236 - Cancer Biology (3)
  - Complete at least 1 of the following:
    - BSC6407C - Laboratory Methods in Molecular Biology (3)
    - BSC5418 - Tissue Engineering (3)
  - Complete 1 of the following:
    - Earn at least 2 credits from the following types of courses:
      - MCB 6938 - Seminar 1 Credit Hour (to be repeated)
    - Earn at least 2 credits from the following types of courses:
      - MCB 6938 - Seminar 1 Credit Hour AND MCB 6314 - Industrial Perspectives Seminar 1 Credit Hours

Elective Courses
12 Total Credits

- Earn at least 12 credits from the following:
  - PCB5025 - Molecular and Cellular Pharmacology (3)
  - MCB5415 - Cellular Metabolism (3)
  - PCB5235 - Molecular Immunology (3)
  - MCB5225 - Molecular Biology of Disease (3)
  - PCB6595 - Regulation of Gene Expression (3)
  - MCB5505 - Molecular Virology (3)
  - PCB5275 - Signal Transduction Mechanics (3)
  - MCB6226 - Molecular Diagnostics (3)
  - IDS5127 - Foundation of Bio-Imaging Science (3)
  - BSC5418 - Tissue Engineering (3)
  - BSC5436 - Biomedical Informatics : Structure Analysis (3)
  - PCB5265 - Stem Cell Biology (3)

Capstone
3 Total Credits

- Complete all of the following
  - Complete the following:
    - MCB6026 - Molecular Biology and Microbiology Capstone (3)
  - An in-depth current literature research report in the area of Cancer Biology will be required for each student. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report. An oral presentation on the written capstone report will be used as a final examination.
    - Capstone Process
  - Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student's interest. The student and the mentor should select one additional faculty members to serve on the capstone evaluation committee. Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must
be submitted to the Program Office. When the student is ready to defend the Capstone project, the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.

**Capstone Report**

- Evaluation of the capstone project requires a written report (in the format of a mini-review manuscript) and a presentation (project defense) in front of the capstone committee. Students may ask for advice and guidance from the project mentor/chair. The average capstone report ranges from 10 to 15 single-spaced pages in a manuscript format with proper citations. The student's Committee Chair will be responsible for checking the report for plagiarism using iThenticate before the report is shared with the committee. The committee must receive the report at least one week before the time of presentation.

**Capstone Defense**

- Note: The defense (presentation) must be held no later than one week before the final exam week. The capstone defense and comprehensive exam evaluation is designed to assess the student’s knowledge and understanding of the project and other relevant subjects in the field. Questions asked by the capstone committee to evaluate the student as competent in the field will satisfy the requirement of the comprehensive exam. The oral presentation will take place in the form of a 30-40 minute seminar and will be followed by questions and discussion. The student will be evaluated on performance in all three sections (written report, oral presentation, and ability to answer questions). Should the student fail, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in an Unsatisfactory (U) grade in the course and dismissal from the program.

**Comprehensive Examination**

0 Total Credits

- Students must pass an oral comprehensive exam to qualify for the Master of Science. The oral comprehensive exam tests the student’s understanding of the basic concepts in the field and relevant applications. The comprehensive exam will be conducted during the capstone defense and will be administered by the capstone committee. Should the student fail this exam, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in dismissal from the program.

**Teaching Requirement**

0 Total Credits

- Students without significant prior teaching experience, such as, but not limited to, a minimum of a year in secondary schools or colleges, are required to serve as Classroom Laboratory Teaching Assistants for a minimum of one semester (one semester in at least one lab section).

**Research Shadowing (Optional)**

0 Total Credits

- Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

**Independent Learning**

0 Total Credits

- In the final semester of study, students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.

**Grand Total Credits: 33**

**Financial Information**

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Fellowships

Grad Fellowships

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Biomedical Sciences MS - Biomedical Sciences MS, Infectious Disease Track

College

College of Medicine

Department

College of Medicine Burnett School of Biomedical Sciences

Track Website

https://med.ucf.edu/biomed/graduate-programs/

Track Handbook

Biomedical Sciences MS, Infectious Disease Track

Track Contact Information

Saleh Naser PhD
Professor
saleh.naser@ucf.edu

Is this track available 100% online?

No

Track Description

The Infectious Disease Track in the Master of Science in Biomedical Sciences Program is a nonthesis plan of study for students who want to further their knowledge in the infectious disease field and who may pursue doctoral training or professional education focused on medicine and infectious disease. Students interested in research and thesis work should apply to the Master of Science in Biotechnology Program.

Track Prerequisites

A bachelor's degree in Biological Sciences or related area.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV.

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.
Graduate Application Deadlines

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Institution Codes

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GMAT: RZT-HT-58
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Degree Requirements

Required Courses
18 Total Credits

- Complete all of the following
- Complete the following:
  - ZOO6737 - Clinically Oriented Human Anatomy (4)
  - PCB6595 - Regulation of Gene Expression (3)
  - MCB6226 - Molecular Diagnostics (3)
  - MCB5208 - Cellular Microbiology: Host-Pathogen Interactions (3)
- Complete at least 1 of the following:
  - BSC6407C - Laboratory Methods in Molecular Biology (3)
  - BSC5418 - Tissue Engineering (3)
- Complete 1 of the following
  - Earn at least 2 credits from the following types of courses:
    - MCB 6938 - Seminar 1 Credit Hour (to be repeated)
  - Earn at least 2 credits from the following types of courses:
    - MCB 6938 - Seminar 1 Credit Hour MCB 6314 - Industrial Perspectives Seminar 1 Credit Hours

Elective Courses
12 Total Credits

- Complete all of the following
- Earn at least 12 credits from the following:
  - PCB5527 - Genetic Engineering and Biotechnology (3)
  - MCB5205 - Infectious Processes (3)
  - MCB5505 - Molecular Virology (3)
  - MCB6417C - Microbial Metabolism (3)
  - MCB5932 - Current Topics in Molecular Biology (1 - 99)
  - MCB5415 - Cellular Metabolism (3)
  - MCB5209 - Microbial Stress Response (3)
  - PCB6595 - Regulation of Gene Expression (3)
Capstone
3 Total Credits

- Complete all of the following
- Complete the following:
  - MCB6026 - Molecular Biology and Microbiology Capstone (3)
  - An in-depth current literature research report on a relevant subject will be required for each student. The student will select a faculty adviser to chair a faculty committee of two members for the evaluation of the report. An oral presentation on the written capstone report will be used as a final examination.

Capstone Process
- Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student's interest. The student and the mentor should select one additional faculty members to serve on the capstone evaluation committee. Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must be submitted to the Program Office. When the student is ready to defend the Capstone project, the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.

Capstone Report
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Comprehensive Examination
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Teaching Requirement
0 Total Credits
- Students without significant prior teaching experience, such as, but not limited to, a minimum of a year in secondary schools or colleges, are required to serve as Classroom Laboratory Teaching Assistants for a minimum of one semester (one semester in at least one lab section).

Research Shadowing (Optional)
0 Total Credits
- Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

Independent Learning
0 Total Credits
- In the final semester of study, students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.

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Biomedical Sciences MS - Biomedical Sciences MS, Integrated Medical Sciences Track

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Track Website
https://med.ucf.edu/biomed/graduate-programs/

Track Handbook
Biomedical Sciences MS, Integrated Medical Sciences Track

Track Contact Information
Steven Ebert PhD
Associate Professor
steven.ebert@ucf.edu
BBS 421

Is this track available 100% online?
No

Track Description
The non-thesis Integrated Medical Sciences Track in the Biomedical Sciences MS program is designed to prepare students for acceptance into medical, dental, osteopathic, and/or other related professional schools of their choice by providing them with an opportunity to take two first-year medical school courses with the medical students in combination with graduate courses in biomedical sciences.

Track Prerequisites
A bachelor's degree in Biological Sciences or related area.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.
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- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

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Telephone: 407-823-2766
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Mailing Address

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Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete all of the following
  - Complete the following:
    - BMS6001 - Cellular Function and Medical Genetics (5)
    - BMS6006 - Health and Disease (5)
  - Student take one of the following three options
    - Complete 1 of the following
      Option 1
      - Complete all of the following
        - Complete the following:
          - PCB5834C - Advanced Human Physiology (4)
          - PCB5709C - Laboratory Virtual Simulations in Physiology (3)
          - Earn at least 1 credits from the following types of courses:
MCB 6938 - Seminar 1 Credit Hour or IDS 7680 - Seminar 1 Credit Hour

Option 2
- Complete all of the following
  - Complete the following:
    - PHT6115C - Gross Anatomy/Neuroscience I (6)
  - Earn at least 2 credits from the following types of courses:
    - MCB 6938 - Seminar 1 Credit Hour (can be repeated by all students) or IDS 7680 - Seminar 1 Credit Hour (can be repeated by all students)

Option 3
- Complete all of the following
  - Complete the following:
    - BSC5665 - Clinical Embryology and Congenital Malformations (3)
    - ZOO5758C - Vertebrate Histology (4)
  - Earn at least 1 credits from the following types of courses:
    - MCB 6938 - Seminar 1 Credit Hour or IDS 7680 - Seminar 1 Credit Hour

Elective Courses
12 Total Credits

- Complete all of the following
  - Biomedical Specialization
    - Earn at least 6 credits from the following:
      - MCB5225 - Molecular Biology of Disease (3)
      - MCB6226 - Molecular Diagnostics (3)
      - PCB5238 - Immunobiology (3)
      - PCB5238 - Immunobiology (3)
      - PCB5265 - Stem Cell Biology (3)
      - PCB5275 - Signal Transduction Mechanics (3)
      - PCB5527 - Genetic Engineering and Biotechnology (3)
      - PCB5709C - Laboratory Virtual Simulations in Physiology (3)
      - PCB5815 - Molecular Aspects of Obesity, Diabetes and Metabolism (3)
      - PCB5834C - Advanced Human Physiology (4)
      - IDS5127 - Foundation of Bio-Imaging Science (3)
      - BSC5418 - Tissue Engineering (3)
      - GEB5516 - Technological Entrepreneurship (3)
      - ZOO5748C - Clinical Neuroanatomy (5)
      - ZOO5749C - Clinical Neuroscience (5)
    - Other courses may be substituted with approval by the graduate committee.
  - Microbiology Specialization
    - Earn at least 6 credits from the following:
      - MCB5205 - Infectious Processes (3)
      - MCB5505 - Molecular Virology (3)
      - MCB5208 - Cellular Microbiology: Host-Pathogen Interactions (3)
      - Course Not Found
      - MCB517C - Microbial Metabolism (3)
      - MCB5932 - Current Topics in Molecular Biology (1 - 99)
      - MCB5415 - Cellular Metabolism (3)
      - MCB5209 - Microbial Stress Response (3)
      - PCB5235 - Molecular Immunology (3)
    - Other courses may be substituted with approval by the graduate committee.

Capstone
3 Total Credits

- Complete all of the following
  - MCB6026 - Molecular Biology and Microbiology Capstone (3)
  - The Capstone Project for the IMS Track is customizable based on student needs. Options include the following:
    - Scholarly in-depth literature review in biomedical and/or clinical sciences (report required) Physician-Shadowing Experience (report required) Service-Learning/Volunteer Work Experience (report required) Laboratory Research (report required) Other (must be pre-approved by the program coordinator/director) (report required)
  - The Capstone Process
    - Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student’s interest. The student and the mentor should select one additional faculty member to serve on the capstone evaluation committee. Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must be submitted to the Program Office. When the student is ready to defend the Capstone project the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.
The Capstone Report

- Evaluation of the capstone project requires a written report (in the format of a mini-review manuscript) and a presentation (project defense) in front of the capstone committee. Students may ask for advice and guidance from the project mentor/chair. The average capstone report ranges from 10 to 15 single-spaced pages in a manuscript format with proper citations. The student's Committee Chair will be responsible for checking the report for plagiarism using iThenticate before the report is shared with the committee. The committee must receive the report at least one week before the time of presentation.

The Capstone Defense

- Note: The defense (presentation) must be held no later than one week before the final exam week. The capstone defense and comprehensive exam evaluation is designed to assess the student's knowledge and understanding of the project and other relevant subjects in the field. Questions asked by the capstone committee to evaluate the student as competent in the field will satisfy the requirement of the comprehensive exam. The oral presentation will take place in the form of a 30-40 minute seminar and will be followed by questions and discussion. The student will be evaluated on performance in all three sections (written report, oral presentation, and ability to answer questions). Should the student fail, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in an Unsatisfactory (U) grade in the course and dismissal from the program.

Comprehensive Exam

0 Total Credits

- Students must pass an oral comprehensive exam to qualify for the Master of Science. The oral comprehensive exam tests the student's understanding of the basic concepts in the field and relevant applications. The comprehensive exam will be conducted during the capstone defense and will be administered by the capstone committee. Should the student fail this exam, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in dismissal from the program.

Teaching Requirement

0 Total Credits

- Students without significant prior teaching experience, such as, but not limited to, a minimum of a year in secondary schools or colleges, are required to serve as Classroom Laboratory Teaching Assistants for a minimum of one semester (one semester in at least one lab section).

Research Shadowing (Optional)

0 Total Credits

- Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

Independent Learning

0 Total Credits

- In the final semester of study, students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.

Grand Total Credits: 33

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Nonthesis students are not considered for departmental graduate assistantships or tuition assistance.

UCF Student Financial Assistance

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Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/
**Biomedical Sciences MS - Biomedical Sciences MS, Metabolic and Cardiovascular Sciences Track**

**College**

College of Medicine

**Department**

College of Medicine Burnett School of Biomedical Sciences

**Track Website**

https://med.ucf.edu/biomed/graduate-programs/

**Track Handbook**

Biomedical Sciences MS, Metabolic and Cardiovascular Sciences Track

**Track Contact Information**

Saleh Naser PhD
Professor
saleh.naser@ucf.edu

Is this track available 100% online?

No

**Track Description**

The Metabolic and Cardiovascular Sciences Track in the Master of Science in Biomedical Sciences Program is a nonthesis plan of study for students who want to further their knowledge in the metabolic and cardiovascular sciences field and who may pursue doctoral training or professional education focused on medicine and metabolic and cardiovascular sciences. Students interested in research and thesis work should apply to the Master of Science in Biotechnology Program.

**Track Prerequisites**

A bachelor's degree in Biological Sciences or related area.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV.

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

**Graduate Application Deadlines**

<table>
<thead>
<tr>
<th>Metabolic and Cardiovascular Sciences</th>
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<th>Fall</th>
<th>Spring</th>
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Application Deadlines Notes

The Fall 2022 application deadline has been extended to:

- January 15, 2022 - International Applicants
- February 1, 2022 - Domestic Applicants

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete all of the following
  - Complete the following:
    - ZOO6737 - Clinically Oriented Human Anatomy (4)
    - MCB6226 - Molecular Diagnostics (3)
    - PCB5815 - Molecular Aspects of Obesity, Diabetes and Metabolism (3)
    - PCB6595 - Regulation of Gene Expression (3)
  - Complete at least 1 of the following:
    - BSC6407C - Laboratory Methods in Molecular Biology (3)
    - BSC5418 - Tissue Engineering (3)
  - Complete 1 of the following
    - Earn at least 2 credits from the following types of courses:
      - MCB 6938 - Seminar 1 Credit Hour (to be repeated)
    - Earn at least 2 credits from the following types of courses:
      - MCB 6938 - Seminar 1 Credit Hour AND MCB 6314 - Industrial Perspectives Seminar 1 Credit Hours

Elective Courses
12 Total Credits

- Complete all of the following
  - Earn at least 12 credits from the following:
    - MCB5415 - Cellular Metabolism (3)
    - PCB5834C - Advanced Human Physiology (4)
    - PCB5265 - Stem Cell Biology (3)
    - CHM5305 - Bioconjugate Chemistry (3)
    - BSC5436 - Biomedical Informatics : Structure Analysis (3)
    - BSC5418 - Tissue Engineering (3)
    - PCB5709C - Laboratory Virtual Simulations in Physiology (3)
    - MCB5225 - Molecular Biology of Disease (3)
    - PET6366 - Exercise, Nutrition and Weight Control (3)
    - PET6388 - Cardiovascular Physiology (3)
  - Other elective courses must be approved by the Program Coordinator.

Capstone
3 Total Credits

- Complete all of the following
  - Complete the following:

2021-2022 Graduate Catalog
- MCB6026 - Molecular Biology and Microbiology Capstone (3)

- An in-depth current literature research report on a relevant subject will be required for each student. The student will select a faculty adviser to chair a faculty committee of two members for the evaluation of the report. An oral presentation on the written capstone report will be used as a final examination.

Capstone Process

- Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student's interest. The student and the mentor should select one additional faculty member to serve on the capstone evaluation committee. Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must be submitted to the Program Office. When the student is ready to defend the Capstone project, the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.

Capstone Report

- Evaluation of the capstone project requires a written report (in the format of a mini-review manuscript) and a presentation (project defense) in front of the capstone committee. Students may ask for advice and guidance from the project mentor/chair. The average capstone report ranges from 10 to 15 single-spaced pages in a manuscript format with proper citations. The student's Committee Chair will be responsible for checking the report for plagiarism using iThenticate before the report is shared with the committee. The committee must receive the report at least one week before the time of presentation.

Capstone Defense

- Note: The defense (presentation) must be held no later than one week before the final exam week. The capstone defense and comprehensive exam evaluation is designed to assess the student's knowledge and understanding of the project and other relevant subjects in the field. Questions asked by the capstone committee to evaluate the student as competent in the field will satisfy the requirement of the comprehensive exam. The oral presentation will take place in the form of a 30-40 minute seminar and will be followed by questions and discussion. The student will be evaluated on performance in all three sections (written report, oral presentation, and ability to answer questions). Should the student fail, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in an Unsatisfactory (U) grade in the course and dismissal from the program.

Comprehensive Examination

0 Total Credits

- Students must pass an oral comprehensive exam to qualify for the Master of Science. The oral comprehensive exam tests the student's understanding of the basic concepts in the field and relevant applications. The comprehensive exam will be conducted during the capstone defense and will be administered by the capstone committee. Should the student fail this exam, a second opportunity will be provided within two weeks of the first attempt. A second failure will result in dismissal from the program.

Teaching Requirement

0 Total Credits

- Students without significant prior teaching experience, such as, but not limited to, a minimum of a year in secondary schools or colleges, are required to serve as Classroom Laboratory Teaching Assistants for a minimum of one semester (one semester in at least one lab section).

Research Shadowing (Optional)

0 Total Credits

- Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

Independent Learning

0 Total Credits

- In the final semester of study, students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.

Grand Total Credits: **33**

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

2021-2022 Graduate Catalog
Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Biomedical Sciences MS - Biomedical Sciences MS, Neuroscience Track

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Track Website
https://med.ucf.edu/biomed/graduate-programs/

Track Handbook
Biomedical Sciences MS, Neuroscience Track

Track Contact Information
Saleh Naser PhD
Professor
saleh.naser@ucf.edu

Is this track available 100% online?
No

Track Description
The Neuroscience Track in the Master of Science in Biomedical Sciences Program is a nonthesis plan of study for students who want to further their knowledge in the neuroscience field and who may pursue doctoral training or professional education focused on medicine and neuroscience. Students interested in research and thesis work should apply to the Master of Science in Biotechnology Program.

Track Prerequisites
A bachelor's degree in Biological Sciences or related area.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV.

Personal interviews are helpful but not required. Applicants who do not have a competitive GPA or GRE/MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.
Graduate Application Deadlines

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Application Deadlines Notes

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- February 1, 2022 - Domestic Applicants

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses

18 Total Credits

- Complete all of the following
  - Complete the following:
    - ZOO6737 - Clinically Oriented Human Anatomy (4)
    - PCB6595 - Regulation of Gene Expression (3)
    - PCB6595 - Regulation of Gene Expression (3)
    - PCB5837 - Cellular and Molecular Neuroscience (3)
  - Complete at least 1 of the following:
    - BSC6407C - Laboratory Methods in Molecular Biology (3)
    - BSC5418 - Tissue Engineering (3)
  - Complete 1 of the following
    - Earn at least 2 credits from the following types of courses:
      - MCB 6938 - Seminar 1 Credit Hour (to be repeated)
    - Earn at least 2 credits from the following types of courses:
      - MCB 6938 - Seminar 1 Credit Hour AND MCB 6314 - Industrial Perspectives Seminar 1 Credit Hours

Elective Courses

12 Total Credits

- Complete all of the following
  - Earn at least 12 credits from the following:
    - SPA6417 - Cognitive/Communicative Disorders (3)
    - PCB5275 - Signal Transduction Mechanics (3)
    - ZOO5748C - Clinical Neuroanatomy (5)
    - ZOO5749C - Clinical Neuroscience (5)
    - CAP6616 - Neuroevolution and Generative and Developmental Systems (3)
    - PCB5838 - Cellular and Molecular Basis of Brain Functions (3)
    - BSC5418 - Tissue Engineering (3)
    - PCB5709C - Laboratory Virtual Simulations in Physiology (3)
    - MCB5225 - Molecular Biology of Disease (3)
PCB5834C - Advanced Human Physiology (4)
EXP5254 - Human Factors and Aging (3)
IDS6916 - Simulation Research Methods and Practicum (3)
EXP5208 - Sensation and Perception (3)
PSB5005 - Physiological Psychology (3)
EXP6116 - Visual Performance (3)
EXP6506 - Human Cognition and Learning (3)
PSB6348 - The Neuroanatomical Basis of Psychological Function (3)
PSB6348 - The Neuroanatomical Basis of Psychological Function (3)
PSB6328 - Psychophysiology (3)
PSB6352 - Neuroimaging Design and Analysis Methods (3)

Other elective courses must be approved by the Program Coordinator.

Capstone
3 Total Credits

- Complete all of the following
  - Complete the following:
    - MCB6026 - Molecular Biology and Microbiology Capstone (3)

An in-depth current literature research report on a relevant subject will be required for each student. The student will select a faculty adviser to chair a faculty committee of two members for the evaluation of the report. An oral presentation on the written capstone report will be used as a final examination.

Capstone Process

- Students are encouraged to contact faculty as early as possible to identify a faculty whose research focus complements the student’s interest. The student and the mentor should select one additional faculty members to serve on the capstone evaluation committee. Students must submit a signed Capstone Committee and Capstone Topic form to the Program Coordinator for approval as soon as the registration for the course is complete. These forms must be submitted to the Program Office. When the student is ready to defend the Capstone project, the student must register for the capstone course (MCB 6026) for three credit hours. It is important that the student register for the capstone course with the intention of completing the project at the end of the semester.

Capstone Report

- Evaluation of the capstone project requires a written report (in the format of a mini-review manuscript) and a presentation (project defense) in front of the capstone committee. Students may ask for advice and guidance from the project mentor/chair. The average capstone report ranges from 10 to 15 single-spaced pages in a manuscript format with proper citations. The student’s Committee Chair will be responsible for checking the report for plagiarism using iThenticate before the report is shared with the committee. The committee must receive the report at least one week before the time of presentation.

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Comprehensive Examination
0 Total Credits

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Teaching Requirement
0 Total Credits

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Research Shadowing (Optional)
0 Total Credits

- Students are encouraged to discuss with their capstone mentor the possibility of joining the lab for research shadowing of other graduate students. Acquired lab skills should assist students with the capstone project and with future endeavors.

Independent Learning
0 Total Credits

- In the final semester of study students will complete a capstone course that requires an in-depth current literature research report on a relevant subject, which will serve as the independent learning experience. The student will select a faculty adviser to chair a faculty committee of two members for evaluation of the report.
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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Biomedical Sciences PhD

College

College of Medicine

Department

College of Medicine Burnett School of Biomedical Sciences

Program Website

https://med.ucf.edu/biomed/graduate-programs/

Program Handbook

Biomedical Sciences PhD

Program Contact Information

Saleh Naser PhD
Professor
saleh.naser@ucf.edu
Telephone: 407-823-0955
UCF College of Medicine

Jihe Zhao PhD
Associate Professor
jihe.zhao@ucf.edu
Telephone: 407-266-7099
BBS 316

Is this program available 100% online?

No

Program Description

The Biomedical Sciences PhD program is an interdisciplinary program that combines biological and physical science. This program is intended to educate students in independent research and team collaboration within the field.

Program Prerequisites

Applicants entering the program with regular status are expected to have completed course work required for a bachelor's degree in chemistry, cell biology, biochemistry, biophysics, genetics, molecular biology or microbiology.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants entering the program with regular status are expected to have completed course work required for a bachelor's degree in chemistry, cell biology, biochemistry, biophysics, genetics, molecular biology or microbiology.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Statement of research interest and purpose, including a summary of relevant work or research experience.
- Résumé or CV.
- A personal or telephone interview.

Admission is based on an overall assessment of the qualifications submitted and the interview. All admissions to graduate status are competitive and based on availability of faculty for sponsoring research.

Graduate Application Deadlines

<table>
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<tr>
<th>Biomedical Sciences PhD</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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Graduate School Contact

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Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
23 Total Credits

- Complete all of the following
- Complete the following:
  - BSC6432 - Biomedical Sciences I (5)
  - BSC6433 - Biomedical Sciences II (5)
  - BSC6431 - Practice of Biomedical Sciences (3)
  - IDS6694 - Experimental Design and Analysis in Biomedical Sciences (2)
- Earn at least 4 credits from the following types of courses:
  - IDS 7690 - Frontiers in Biomedical Sciences 1 Credit Hours (four semesters, 1 credit hour each semester)
- Earn at least 4 credits from the following types of courses:
Elective Courses
12 Total Credits

- Complete all of the following
  - Earn at least 12 credits from the following:
    - BSC5418 - Tissue Engineering (3)
    - BSC5436 - Biomedical Informatics: Structure Analysis (3)
    - BSC6407C - Laboratory Methods in Molecular Biology (3)
    - CAP5510 - Bioinformatics (3)
    - CHM5305 - Bioconjugate Chemistry (3)
    - CHM5450 - Polymer Chemistry (3)
    - CHM5451C - Techniques in Polymer Science (3)
    - CHS6251 - Applied Organic Synthesis (3)
    - CHS6535 - Forensic Molecular Biology (3)
    - CHS6535L - Forensic Analysis of Biological Materials (3)
    - CHS6536 - Population Genetics and Genetic Data (3)
    - CHS6536C - Population Genetics and Genetic Data (3)
    - IDS5127 - Foundation of Bio-Imaging Science (3)
    - MCB5205 - Infectious Processes (3)
    - MCB5208 - Cellular Microbiology: Host-Pathogen Interactions (3)
    - MCB5209 - Microbial Stress Response (3)
    - MCB5225 - Molecular Biology of Disease (3)
    - MCB5505 - Molecular Virology (3)
    - MCB5722C - Methods in Biotechnology (4)
    - MCB5932 - Current Topics in Molecular Biology (1-99)
    - MCB5415 - Cellular Metabolism (3)
    - MCB6226C - Molecular Diagnostics (3)
    - MCB6417C - Microbial Metabolism (3)
    - PCB5025 - Molecular and Cellular Pharmacology (3)
    - PCB5235 - Molecular Immunology (3)
    - PCB5236 - Cancer Biology (3)
    - PCB5238 - Immunobiology (3)
    - PCB5265 - Stem Cell Biology (3)
    - PCB5275 - Signal Transduction Mechanics (3)
    - PCB5527 - Genetic Engineering and Biotechnology (3)
    - PCB5596 - Biomedical Informatics: Sequence Analysis (3)
    - PCB5815 - Molecular Aspects of Obesity, Diabetes and Metabolism (3)
    - PCB5838 - Cellular and Molecular Basis of Brain Functions (3)
    - PCB6528 - Plant Molecular Biology (3)
    - PCB6595 - Regulation of Gene Expression (3)
    - PCB6677 - Molecular Evolution and Phylogenetics (3)
    - ZOO5748C - Clinical Neuroanatomy (5)

- At least 12 hours of electives must be taken from the above list. Any electives not on this list must be approved by the Graduate Committee before being counted toward degree credit requirements. Directed research, doctoral research, and dissertation research may be used to satisfy requirements beyond the first 12 hours, with approval from the program director.

Unrestricted Electives
22 Total Credits

- Earn at least 22 credits from the following types of courses:
  Students should take 22 credit hours of electives, directed research, doctoral research or dissertation research, in consultation with their adviser.

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - IDS 7980 - Dissertation Research

Cumulative/Qualifying Examinations
0 Total Credits

- Cumulative examinations taken during the second year will determine if students should continue with their doctoral studies. Exams will be overseen by a cumulative exam committee. Each exam will consist of questions set by different faculty members. Questions will deal with data interpretation from the current literature and the design of experiments to test a hypothesis. A student must satisfactorily answer cumulative examination questions, displaying a knowledge base consistent with continuation in the PhD program.

Candidacy Examination
0 Total Credits

- Candidacy will consist of writing and orally defending a proposal outlining a novel research idea to the dissertation committee.
The written proposal will be prepared independently, following NIH-style grant format, and must be approved by the dissertation committee (see Biomedical Sciences PhD Program Handbook for full description of Candidacy Exam requirements and procedures). After passing the candidacy examination and meeting other requirements as specified, the student can register for dissertation hours.

Admission to Candidacy
0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours: Successfully complete a minimum of 48 credit hours. Successful completion of all coursework, except for dissertation hours. Successful completion of candidacy examination. Successful defense of the written dissertation proposal. Successful completion of Academic Integrity requirements. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study.

Dissertation Defense
0 Total Credits

- The dissertation should be of significant scope and depth such that the work has made significant advances in the area of biomedical science. The Ph.D. dissertation research must generate sufficient quantity and quality data to support a minimum of two original manuscripts (first-authored by the student) in a mainstream journal in the field. One first-author original research article published or accepted for publication is required for pre-defense. In addition to meeting the pre-defense requirement for publication, a second manuscript must have been submitted and subjected to peer review before the defense. Upon completion and approval of the doctoral dissertation by all designated faculty and university offices, the student will make a formal presentation of the research findings in a seminar format to the dissertation committee and other university faculty and students. The candidate will answer questions and defend conclusions about the subject matter.

Independent Learning
0 Total Credits

- The dissertation serves as the independent learning experience.

Grand Total Credits: 72

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Biomedical Sciences PhD - Biomedical Sciences MD/PhD Track

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Track Website
https://med.ucf.edu/biomed/graduate-programs/
Track Handbook

Biomedical Science MD/PhD Track

Track Contact Information

Steven Ebert PhD
Associate Professor
steven.ebert@ucf.edu
BBS 421

Is this track available 100% online?

No

Track Description

The College of Medicine offers an integrated MD/PhD curriculum that enables students to fulfill all requirements and earn the Doctor of Medicine and the Doctor of Philosophy.

This program provides opportunity for MD students to obtain advanced research and training experience and for PhD students to obtain medical training. The program develops physician-scientists with preparation for both academic research and teaching careers. Physician-scientists are in an excellent position to facilitate bench-to-bedside translation of applicable research findings.

Students must fulfill all requirements for both programs to earn both the MD and PhD degrees. As indicated in the curriculum description, some medical modules can be substituted for certain graduate courses and vice versa to help reduce redundancy and streamline time to completion of this integrated program. Students will be able to complete the MD/PhD program in as few as 6 years, although most students will likely require 7-8 years to fulfill all of the requirements. An MD/PhD program committee consisting of faculty from both the medical and graduate programs will serve as the oversight committee responsible for tracking and evaluating student progress in this program.

Students in the integrated MD/PhD Track in Biomedical Sciences must be accepted in the College of Medicine MD program and begin working on their PhD research project during the first two years of medical school. Students take medical courses during the first two years and must successfully pass the USMLE Step 1 exam at the end of year 2 prior to beginning full-time graduate studies in the Biomedical Sciences PhD Program. Required and elective graduate courses for the PhD program are completed in years 3-4 while the student is continuing research. Clinical clerkships that are typically completed in years 3-4 of medical school will in most cases be deferred until the student has completed the PhD program requirements, though some minimum level of ongoing clinical training will continue throughout the entire duration of the program. This ensures that the student remains connected with clinical education and training even while primarily focused on the graduate portion of the MD/PhD program.

The Biomedical Sciences PhD program requires a minimum of 72 credit hours beyond the bachelor's degree, including a minimum total of 27 hours of formal course work exclusive of independent study that are required. The 72 credit hours in the PhD program consists of 23 credit hours of core courses, 12 credit hours of electives, and a minimum of 15 credit hours of dissertation research. The remaining 22 credit hours may consist of additional electives, doctoral research and/or dissertation research. Students entering with a master’s degree may request that up to 30 semester credit hours of previous course work be waived as degree requirements with approval from the dissertation committee.

The MD curriculum can be found here: http://med.ucf.edu/academics/md-program/integrated-curriculum/.

Programmatic deficiencies expected of applicants from diverse settings will be addressed early in the program by completion of appropriate course work. Students may register for doctoral research until they have been admitted to candidacy, after which they must register for dissertation research.

New students will rotate through at least two different laboratories to identify a faculty mentor/sponsor and research area of interest for their dissertation. Finally, a sequence of required seminars will familiarize students with field-related literature and introduce them to the conceptual and technical frameworks in which they will work. All students receiving assistantships must enroll full time.

MD/PhD students are required to maintain good academic standing in both the MD and PhD components of the curriculum. Students must first satisfactorily complete the first two years of the medical school curriculum and pass the USMLE Step 1 exam before they can begin full-time PhD enrollment.

Track Prerequisites

Applicants entering the program with regular status are expected to have completed course work required for a bachelor’s degree in chemistry, cell biology, biochemistry, biophysics, genetics, molecular biology or microbiology.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants entering the program with regular status are expected to have completed course work required for a bachelor's degree in chemistry, cell biology, biochemistry, biophysics, genetics, molecular biology or microbiology.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, MCAT score taken within the last five years. To send MCAT scores electronically, please use the AAMC score reporting system.
- Three letters of recommendation.
- Statement of research interest and purpose, including a summary of relevant work or research experience.
- Résumé.
- A personal or telephone interview.
- In addition to the above requirements, students must also meet the requirements for medical school admission: http://med.ucf.edu/administrative-officers/
- Admission is based on an overall assessment of the qualifications submitted and the interview. All admissions to the MD/PhD program are competitive and based on availability of faculty for sponsoring research.

Interested applicants must first apply to the UCF medical school through AMCAS and indicate on their medical school application that they are applying for MD/PhD.

Students interested in pursuing a combined MD/PhD degree must apply and be accepted into medical school and the Biomedical Sciences PhD program. Separate applications are required, and students wishing to pursue this joint degree program should indicate this and state their reasons on both applications.

AMCAS Application

Applicants must complete an application through the online American Medical College Application Service (AMCAS) at www.aamc.org. AMCAS is the national application service that processes applications for M.D. Programs throughout the nation. Through AMCAS, an applicant may apply to most M.D. programs by completing one application and paying the appropriate fees. AMCAS provides the college with applicant information immediately upon completion of AMCAS transcript verification process.

The AMCAS application period begins in late May and terminates on or before December 15 prior to the year in which the applicant anticipates enrollment. The AMCAS Application deadline is the date when students must submit the application, all fees, original transcripts, and associated data to AMCAS.

Applicants who are selected for medical school interviews at UCF will be invited to apply through the Graduate School portal for the PhD portion of the combined program. Please note that applications that do not come through AMCAS will not be considered for MD/PhD track.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>MD / PHD</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tbody>
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<td>Jan 15</td>
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</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
21 Total Credits

- Complete all of the following:
  - Complete the following:
    - BMS6001 - Cellular Function and Medical Genetics (5)
    - BSC6433 - Biomedical Sciences II (5)
    - BSC6431 - Practice of Biomedical Sciences (3)
    - IDS6694 - Experimental Design and Analysis in Biomedical Sciences (2)
  - Earn at least 2 credits from the following types of courses:
    - IDS 7690 - Frontiers in Biomedical Sciences 1 Credit Hours (two semesters, 1 credit hour each semester)
  - Earn at least 4 credits from the following types of courses:
    - IDS 7692L - Experiments in Biomedical Sciences (Lab Rotation: 3 credits/first semester, 1 credit/2nd semester)

Elective Courses
12 Total Credits

- Complete all of the following:
  - At least 12 hours of electives must be taken from the following list. Any electives not on this list must be approved by the Graduate Committee before being counted toward degree credit requirements. Directed research, doctoral research and dissertation research may be used to satisfy requirements beyond the first 12 hours, with approval from the program director. Students successfully completing the first year of medical school at UCF may substitute the following medical modules to fulfill the elective course requirement: BMS 6006 - Health and Disease 5 Credit Hours
    - BMS 6050 - Psychosocial Issues in Healthcare 4 Credit Hours
    - BMS 6631 - Hematology and Oncology 4 Credit Hours
  - Others: If approved by the Graduate Committee.
  - Earn at least 12 credits from the following:
    - BSC5418 - Tissue Engineering (3)
    - BSC5436 - Biomedical Informatics: Structure Analysis (3)
    - BSC6407C - Laboratory Methods in Molecular Biology (3)
    - CAP5510 - Bioinformatics (3)
    - CHM5305 - Bioconjugate Chemistry (3)
    - CHM5450 - Polymer Chemistry (3)
    - CHM5451C - Techniques in Polymer Science (3)
    - CHS6251 - Applied Organic Synthesis (3)
    - CHS6535 - Forensic Molecular Biology (3)
    - CHS6535L - Forensic Analysis of Biological Materials (3)
    - CHS6536 - Population Genetics and Genetic Data (3)
    - GEB5516 - Technological Entrepreneurship (3)
    - IDS5127 - Foundation of Bio-Imaging Science (3)
    - MCB5205 - Infectious Processes (3)
    - MCB5208 - Cellular Microbiology: Host-Pathogen Interactions (3)
    - MCB5225 - Molecular Biology of Disease (3)
    - MCB5505 - Molecular Virology (3)
    - MCB5722C - Methods in Biotechnology (4)
    - MCB5932 - Current Topics in Molecular Biology (1 - 99)
    - MCB5937 - Special Topics (1 - 99)
    - MCB6226 - Molecular Diagnostics (3)
    - MCB6417C - Microbial Metabolism (3)
    - PCB5025 - Molecular and Cellular Pharmacology (3)
    - PCB5236 - Cancer Biology (3)
    - PCB5238 - Immunobiology (3)
    - PCB5265 - Stem Cell Biology (3)
    - PCB5275 - Signal Transduction Mechanics (3)
    - PCB5527 - Genetic Engineering and Biotechnology (3)
    - PCB5596 - Biomedical Informatics: Sequence Analysis (3)
    - PCB5815 - Molecular Aspects of Obesity, Diabetes and Metabolism (3)
    - PCB5838 - Cellular and Molecular Basis of Brain Functions (3)
    - PCB6528 - Plant Molecular Biology (3)
    - PCB6595 - Regulation of Gene Expression (3)
    - PCB6677 - Molecular Evolution and Phylogenetics (3)
    - ZOO5748C - Clinical Neuroanatomy (5)

Unrestricted Electives
24 Total Credits

- Earn at least 24 credits from the following types of courses:
  - Students should take 24 credit hours of electives, directed research, doctoral research or dissertation research, in consultation with their adviser.

Dissertation
15 Total Credits
Earn at least 15 credits from the following types of courses:

IDS 7980 - Dissertation Research 15 Credit Hours

Cumulative/Qualifying Examinations

0 Total Credits

- Cumulative examinations will determine if students should continue with their doctoral studies. Four exams will be given by program faculty members during the second year. Each exam will consist of four questions set by different faculty members to evaluate the student's ability to interpret data, formulate a hypothesis based on the data presented, and effectively design a series of experiments using biomedical science approaches to test their hypothesis. Performance will be evaluated by the graduate exam committee. A student must satisfactorily answer 10 cumulative questions out of 16 to be eligible to continue in the PhD program.

Candidacy Examination

0 Total Credits

- Candidacy will consist of writing and orally defending a proposal outlining a novel research idea to the dissertation committee. The written proposal will be prepared independently, following NIH-style grant format, and must be approved by the dissertation committee (see Biomedical Sciences PhD Program description for full description of Candidacy Exam requirements and procedures). After passing the candidacy examination and meeting other requirements as specified, the student can register for dissertation hours.

Admission to Candidacy

0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours: Successfully complete a minimum of 48 credit hours. Successful completion of Academic Integrity requirements. Successful completion of all coursework, except for dissertation hours. Successful completion of candidacy. Successful defense of the written dissertation proposal. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submission of an approved program of study.

Dissertation Defense

0 Total Credits

- The dissertation should be of significant scope and depth such that the work has made significant advances in the area of biomedical science. The Ph.D. dissertation research must generate sufficient quantity and quality data to support a minimum of two original manuscripts (first-authored by the student) in a mainstream journal in the field. One first-author original research article published or accepted for publication is required for pre-defense. In addition to meeting the pre-defense requirement for publication, a second manuscript must have been submitted and subjected to peer review before the defense. Upon completion and approval of the doctoral dissertation by all designated faculty and university offices, the student will make a formal presentation of the research findings in a seminar format to the dissertation committee and other university faculty and students. The candidate will answer questions and defend conclusions about the subject matter.

Independent Learning

0 Total Credits

- The dissertation serves as the independent learning experience.

Grand Total Credits: 72

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/
**Biotechnology MS**

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Program Website**
https://med.ucf.edu/biomed/graduate-programs/

**Program Handbook**
Biotechnology MS

**Program Contact Information**
Saleh Naser PhD
Professor
saleh.naser@ucf.edu
UCF College of Medicine

**Is this program available 100% online?**
No

**Program Description**
The Master of Science in Biotechnology program in the College of Medicine will prepare students to function in the industrial biotechnology environment. This program is designed to give students broad knowledge and training in the scientific and practical aspects of biotechnology.

It involves innovative, hands-on and multidisciplinary learning approaches to educate and train students in scientific aspects of biotechnology. The courses and research training required of all students in this program are designed to develop independent thinking, teamwork and communication skills, which are highly desirable in the biotechnology industry. Students will be provided an industrial perspective and an understanding of product development at the same time as they are trained in the biotechnology techniques required for such development.

What makes this program unique is the focus on practical training offered to graduate students through master's thesis research in molecular biotechnology to perform jobs in a laboratory environment that require scientific talent.

**Program Prerequisites**
A bachelor's degree in Biological Sciences or related area.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.

**Application Requirements**
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Biological Sciences or related area.
- Official, competitive GRE score (taken within the last five years) or MCAT score (taken within the last three years).
- Three letters of recommendation.
- A written statement of research experience, area of interest, and immediate and long-range goals.
- Resume or CV

Personal interviews are required. Applicants who do not have a competitive GPA, GRE, or MCAT may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Applicants who hold a BS degree in unrelated fields are expected to have the equivalent of 16 semester hours in biological sciences including a course in general microbiology, biochemistry or molecular biology or cell biology, plus one year of organic chemistry, one year of physics, basic university mathematics and statistics, and laboratory skills equivalent to the minimum required of our own undergraduates. Minor deficiencies may be remedied after acceptance by enrollment at the first opportunity in an appropriate course.
Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Biotechnology MS</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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Application Deadlines Notes

The Fall 2022 application deadline has been extended to:

- January 15, 2022 - International Applicants
- February 1, 2022 - Domestic Applicants

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
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Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
21 - 22 Total Credits

- Complete all of the following
- Core
  - Complete at least 1 of the following:
    - MCB5722C - Methods in Biotechnology (4)
    - BSC6407C - Laboratory Methods in Molecular Biology (3)
  - Complete the following:
    - BSC6432 - Biomedical Sciences I (5)
    - BSC6433 - Biomedical Sciences II (5)
    - BSC6431 - Practice of Biomedical Sciences (3)
  - Complete at least 1 of the following:
    - PCB5527 - Genetic Engineering and Biotechnology (3)
    - BSC5418 - Tissue Engineering (3)
    - MCB6417C - Microbial Metabolism (3)
    - PCB5025 - Molecular and Cellular Pharmacology (3)

Graduate Seminars

- Earn at least 2 credits from the following types of courses:
  Students will participate in at least two graduate seminar courses that will prepare them for making professional presentations with an emphasis in biotechnology. The courses will involve the participation of speakers from the biotechnology industry with emphasis on an industrial perspective on biotechnology applications and product development. MCB 6314 - Industrial Perspectives Seminar 1 Credit Hours OR MCB 6938 1 Credit Hour (1 semester only)

Elective Courses
3 - 4 Total Credits

- Complete all of the following
Complete at least 1 of the following:

- BSC5418 - Tissue Engineering (3)
- BSC5436 - Biomedical Informatics: Structure Analysis (3)
- BSC6407C - Laboratory Methods in Molecular Biology (3)
- ID55127 - Foundation of Bio-Imaging Science (3)
- MCB5205 - Infectious Processes (3)
- MCB5208 - Cellular Microbiology: Host-Pathogen Interactions (3)
- MCB5209 - Microbial Stress Response (3)
- MCB5225 - Molecular Biology of Disease (3)
- MCB5415 - Cellular Metabolism (3)
- MCB5505 - Molecular Virology (3)
- MCB5722C - Methods in Biotechnology (4)
- MCB6226 - Molecular Diagnostics (3)
- MCB6417C - Microbial Metabolism (3)
- PCB5527 - Genetic Engineering and Biotechnology (3)
- PCB5025 - Molecular and Cellular Pharmacology (3)
- PCB5236 - Cancer Biology (3)
- PCB5238 - Immunobiology (3)
- PCB5596 - Biomedical Informatics: Sequence Analysis (3)
- PCB5709C - Laboratory Virtual Simulations in Physiology (3)
- PCB5834C - Advanced Human Physiology (4)
- PCB6528 - Plant Molecular Biology (3)
- PCB6595 - Regulation of Gene Expression (3)
- PCB5838 - Cellular and Molecular Basis of Brain Functions (3)
- PCB5265 - Stem Cell Biology (3)
- PCB5815 - Molecular Aspects of Obesity, Diabetes and Metabolism (3)
- ZOO5745C - Neuroanatomical Pathways and their Neurotransmitters (4)
- ZOO5745C - Neuroanatomical Pathways and their Neurotransmitters (4)
- GEB5516 - Technological Entrepreneurship (3)

Student may choose: MCB 5932 - Current Topics in Molecular Biology VAR Credit Hours PCB 5937 - Special Topics: Human Endocrinology 3 Credit Hours Others: If approved by the Graduate Committee

Thesis
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  MCB 6971 Students will take a minimum of six credits of thesis research (MCB 6971) to complete their research and submit their thesis specializing in biotechnology research. Students are expected to have an in-depth discussion with at least three faculty members before choosing a laboratory for thesis research. The student and the Thesis Adviser/Major Professor will jointly recommend an advisory committee comprised of at least three members. The committee composition must reflect expertise relevant to the student's thesis research and must be approved by the Graduate Committee. Students switching to change the composition of the Thesis Advisory Committee must also obtain approval from the Graduate Committee.

Thesis Proposal
0 Total Credits

- The thesis proposal defense requirement should be met and passed successfully no later than the end of the summer of the first year in the program. Students will not be allowed to register for courses for the Fall semester of their second year until this requirement is fulfilled. The Thesis Proposal requirement includes: a written 5-page thesis proposal, a thesis proposal defense in front of the thesis committee, and questions by the thesis committee to test the student's understanding of the basic concepts in the field and relevant applications. The student will be evaluated on performance in all three sections. Should the student fail, a second opportunity will be provided within 2 weeks of the first attempt. A second failure will result in dismissal from the program. An oral thesis defense is required. The defense will be in the format of: A 50-minute presentation of the thesis work, including a 5-minute introduction A 10-minute free period for the general audience to ask questions A 1-hour closed-door examination by the Thesis Advisory Committee and the program faculty present The thesis should be of significant scope and depth such that the work has made advances in the area of biotechnology. The MS thesis research must generate sufficient quantity and quality data to support the submission of a minimum of one manuscript. Approval of the final thesis will require consent from the majority of the Program Faculty who choose to review the thesis, inclusive of the Thesis Advisory Committee. Faculty members with dissenting vote on the thesis must provide written justification. Scientific journal review criteria will be used as guidelines by the faculty to evaluate the final thesis for its appropriateness for publication in the target journal. Students will be evaluated on the progress in thesis research by the thesis advisory committee for fall and spring. Two consecutive unsatisfactory evaluations will result in dismissal from the program.

Comprehensive Examination
0 Total Credits

- Students must pass a comprehensive exam to qualify for the Master of Science degree. Students must successfully pass an oral comprehensive examination to test the understanding of the basic concepts in the field and relevant applications. The Comprehensive Examination will be conducted during the thesis proposal defense. The exam will be administered by the thesis committee. Should the student fail this exam, a second opportunity will be provided within 2 weeks of the first attempt. A second failure will result in dismissal from the program.

Independent Learning
0 Total Credits
- The required thesis allows the student to engage in independent learning.

**Grand Total Credits:** 30 - 32

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

All students receiving assistantships must enroll full time.

**UCF Student Financial Assistance**

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

**Doctor of Medicine MD**

**College**

College of Medicine

**Department**

College of Medicine MD Program

**Program Website**

https://med.ucf.edu/academics/md-program/

**Program Contact Information**

**UCF College of Medicine Admissions**

mdadmissions@ucf.edu
Telephone: 407-266-1350
Health Science Campus

**Is this program available 100% online?**

No

**Licensure Disclosure**

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-COM-Medical-Doctor-MD.pdf.
Program Description

UCF’s M.D. Program allows students to prepare for careers in every discipline of medicine and to focus on an individualized area of study or research. The M.D. Program learning experience is a unique and exciting blend of state-of-the-art technology, interactions with virtual patients, clinical and laboratory experiences, research, facilitator-directed small group sessions, and interactive didactic lectures. The UCF College of Medicine is fully accredited by LCME.

Program highlights include:

Clinical experiences are embedded throughout the first two years in P-1 and P-2 Community of Practice modules. At least twice a month, students will work with community preceptors in a variety of settings to practice skills and to apply the concepts mastered in the integrated basic science curriculum to real patients.

As part of approach described by the Dean as "Keep the Dream Alive!", each student will complete a focused inquiry and research project in the I-1 and I-2 modules. The scope of the project is limited only by the student's imagination and may include bench or clinical research as well as studies of quality of care, hospitality in medicine, quality of life, legal aspects of medicine, and more. Students will work with a mentor to develop a project or area of study that focuses on the student's unique interest and career plans.

Innovative simulation and animation experiences have been designed explicitly to integrate into and reinforce the curriculum. From basic science concepts to clinical diagnoses and treatment, the human patient mannequin simulators and online interactive virtual patients enhance and complement learning.

UCF offers these joint degrees:

MD/MBA, a joint medical and business degree program focusing on developing effective problem-solving and decision-making skills.

MD/MS in Hospitality and Tourism Management, a specialized degree program for individuals interested in enhancing their management skills through studying hospitality and service-oriented business models.

MD/PhD, a College of Medicine program that prepares clinician-scientists for a career in academic medicine to become leaders in the international academic medical community.

Application Requirements

For information on applying to the MD Program, please see med.ucf.edu/admissions/ or contact the Office of Admissions at the UCF College of Medicine

Phone: (407) 266-1350
Email: mdadmissions@ucf.edu).

College of Nursing

Adult-Gerontology Acute Care Nurse Practitioner Graduate Certificate

College

College of Nursing

Department

Department of Nursing Practice

Program Website

http://www.nursing.ucf.edu

Program Contact Information

Christopher Blackwell PhD, ARNP, ANP-BC, AGACNP-BC, CNE, FAANP, FAAN
Associate Professor
christopher.blackwell@ucf.edu
Telephone: 407-823-2744
UTWR 453

Is this program available 100% online?

No
Licensure Disclosure

The curriculum prepares students for both the AGACNP board certification examination administered through the American Nurses Credentialing Center and the Acute Care Nurse Practitioner-Adult-Gerontology certification examination administered through the American Association of Critical Care Nurses. For more information on how this program may prepare you in that regard, please visit https://nursing.ucf.edu/academics/graduate-certificates/agacnp/#faqs and https://apq.ucf.edu/files/Licensure-Disclosure-Adult-Gerontology-Acute-Care-GC.pdf.

Program Description

The Adult-Gerontology Acute Care Nurse Practitioner post-master's certificate prepares the advanced practice nurse to care for patients with medically complex stable and unstable acute, critical, and chronic illnesses across care settings ranging from hospitals to subacute, ambulatory care, clinic and home care environments. The certificate provides a spectrum of care from disease prevention to acute and critical care management. The Adult-Gerontology Acute Care Nurse Practitioner graduate certificate prepares nurses who have already completed their graduate education for entry-level advanced practice in acute care. The program prepares graduates to enter the current healthcare system based on a strong scientific foundation for practice. The curriculum offers flexibility and emphasis on evidence-based practice, leadership, and organizational analysis, and provides analytic, critical thinking, and diagnostic reasoning skills to examine practice innovations. The certificate requires 23 credit hours beyond the master's or doctor of nursing practice (DNP) degree.

Total Credit Hours Required: 23 Credit Hours Minimum beyond the Master's Degree

Program Prerequisites

- NGR 5003 – Advanced Health Assessment and Diagnostic Reasoning 2 Credit Hours
- NGR 5003L – Advanced Health Assessment and Diagnostic Reasoning Lab 1 Credit Hours
- NGR 5141 – Pathophysiological Bases for Advanced Nursing Practice 3 Credit Hours
- NGR 6172 – Pharmacology for Advanced Nursing Practice 3 Credit Hours
- NGR 5638 – Health Promotion 3 Credit Hours

Admission is open to those with MSN Degrees and are licensed and nationally certified as an advanced practice registered nurse, but who are not prepared as Adult-Gerontology Acute Care Nurse Practitioners.
Application Requirements

Admission is open to those with MSN or DNP Degrees and are licensed and nationally certified as an advanced practice registered nurse, but who are not prepared as Adult-Gerontology Acute Care Nurse Practitioners.

An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN and MSN or DNP degree from an accredited institution.
- Undergraduate Statistics course.
- Licensure in the State of Florida and national certification as an advanced practice registered nurse (certified nurse practitioner, certified registered nurse anesthetist, certified nurse midwife, or certified clinical nurse specialist). (Out of state applicants must be eligible for licensure in Florida and must achieve licensure to begin clinical courses.)
- Current certification as an advanced cardiac life support (ACLS) and basic life support (BLS) provider.
- Address the following 3 items in a written essay. Responses to questions should not exceed 500 words, double-spaced, 12-point Times New Roman font, and 1-inch margins:
  - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
  - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
  - Identify one significant contemporary issue or problem in U.S. healthcare and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae which reflects prior education, clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations.
- Requires 3 professional recommendations.
- An interview with faculty may also be required.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for post-master's preparation for advanced nursing practice.

Upon admission to the program, the student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Graduate Application Deadlines

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Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
23 Total Credits

- Complete all of the following
  - Complete the following:
    - NGR6210 - Adult-Gerontology Acute Care Nurse Practitioner I (3)
    - NGR6230L - Diagnostics and Skills for the Critically Ill (2)
    - NGR6211 - Adult-Gerontology Acute Care Nurse Practitioner II (3)
    - NGR6211L - Adult-Gerontology Acute Care Nurse Practitioner II Clinical (3)
    - NGR6175 - Critical Care Pharmacology (3)
    - NGR6212 - Adult-Gerontology Acute Care Nurse Practitioner III (3)
    - NGR6212L - Adult-Gerontology Acute Care Nurse Practitioner III Clinical (3)
    - NGR6215L - Adult-Gerontology Acute Care Nurse Practitioner Practicum (3)

- The following courses include clinical hours: NGR 6230L - Diagnostics and Skills for the Critically Ill (120 clinical hours)
  NGR 6211L - Adult-Gerontology Acute Care Nurse Practitioner II Clinical (180 clinical hours)
  NGR 6212L - Adult-Gerontology Acute Care Nurse Practitioner III Clinical 3 Credit Hours (180 clinical hours)
  NGR 6215L - Adult-Gerontology Acute Care Nurse Practitioner Practicum 3 Credit Hours (180 clinical hours)

Grand Total Credits: 23

Adult-Gerontology Clinical Nurse Specialist Graduate Certificate

College

College of Nursing

Department

Department of Nursing

Program Website

http://www.nursing.ucf.edu

Program Contact Information

Mary Lou Sole PhD
Professor
gradnurse@ucf.edu
Telephone: 407-823-5496
UTWR 300

Is this program available 100% online?

No
Program Description

This program has been temporarily suspended effective Spring 2014.

The post-master's Clinical Nurse Specialist Adult-Gerontology Certificate prepares nurses who already have received a master's degree in nursing for positions as Clinical Nurse Specialists.

Program Prerequisites

Students must demonstrate successful completion of the following courses:

- NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning 2 Credit Hours
- NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab 1 Credit Hours
- NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice 3 Credit Hours
- NGR 5720 - Organizational Dynamics 3 Credit Hours
- NGR 6172 - Pharmacology for Advanced Nursing Practice 3 Credit Hours
- NGR 6874 - Nursing Environment Management 3 Credit Hours

BSN and MSN degree from an accredited institution.

Undergraduate Statistics course.

Licensure as a registered nurse in the State of Florida. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN and MSN degree from an accredited institution.
- Undergraduate Statistics course.
- Licensure as a registered nurse in the State of Florida. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double spaced, 12 point Times New Roman font, and 1 inch margins:
  - Describe how your professional experiences have prepared you for future education in the role which is the focus of your desired track.
  - Describe your plans to alter your work, professional and/or personal obligations in order to have the time needed for graduate course and clinical practice work.
  - Identify one significant contemporary issue/problem in the US Health care system and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates this can include accomplishments as a student.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
18 Total Credits

- Complete the following:
  - NGR6265 - Adult/Gerontology CNS I (3)
  - NGR6265L - Adult/Gerontology CNS I Clinical (3)
  - NGR6266 - Adult/Gerontology CNS II (3)
  - NGR6266L - Adult/Gerontology CNS II Clinical (3)
  - NGR6267 - Adult/Gerontology CNS III (3)
  - NGR6267L - Adult/Gerontology CNS III Clinical (3)

Grand Total Credits: 18

Adult-Gerontology Primary Care Nurse Practitioner Graduate Certificate

College
College of Nursing

Department
Department of Nursing Practice

Program Website
http://www.nursing.ucf.edu

Program Contact Information

Valerie Martinez, DNP, APRN, CPNP-PC
Clinical Assistant Professor
valerie.martinez@ucf.edu
Telephone: 407-823-5024
UTWR 459

Is this program available 100% online?

No

Licensure Disclosure

For information on how this program may prepare you for professional licensure, please visit https://apq.ucf.edu/files/Licensure-Disclosure-Adult-Gerontology-Primary-Care-GC.pdf.

Program Description

The post-master's Adult/Gerontology Primary Care Nurse Practitioner Graduate Certificate prepares nurses who already have received a master's degree in nursing for positions as Adult/Gerontology Primary Care Nurse Practitioners. Graduates of this program are eligible to sit for the Adult-Gerontology Primary Care Nurse Practitioner (AGPCNP) National Board Certification Examination offered by the American Academy of Nurse Practitioners Certification Board or the American Nurses Credentialing Center.

Program Objectives

- Analyze social, economic, ethical, cultural, legal and political issues influencing nursing practice and health care in a global context.
- Collaborate with leaders in nursing and other disciplines to improve the quality of professional nursing practice and the healthcare system.
- Develop and implement leadership, management and teaching strategies for the improvement of health and healthcare.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy to improve the health of communities.
- Participate in lifelong learning activities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities and nursing theories to support advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skills.
- Practice in an advanced nursing role.

The program is 18 credit hours and includes up to 660 hours of clinical practice. There are 12 credit hours of prerequisite requirements.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Master's Degree
Program Prerequisites

- BSN and MSN degree from an accredited institution.
- Undergraduate Statistics course.
- Licensure as an advanced practice registered nurse (APRN) in the State of Florida. (Out of state applicants must be eligible for licensure in Florida and must achieve licensure to begin clinical courses.)

- Students must demonstrate successful completion of the following courses:
  - NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning 2 Credit Hours
  - NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab 1 Credit Hours (60 clinical hours)
  - NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice 3 Credit Hours
  - NGR 6172 - Pharmacology for Advanced Nursing Practice 3 Credit Hours
  - NGR 5638 - Health Promotion 3 Credit Hours

Application Requirements

Admission is open to those with MSN Degrees and are licensed as an advanced practice registered nurse, but who are not prepared as Adult-Gerontology Primary Care Nurse Practitioners. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN and MSN degree from an accredited institution.
- Undergraduate Statistics course.
- Licensure as an advanced practice registered nurse (APRN) in the State of Florida. (Out of state applicants must be eligible for licensure in Florida and must achieve licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Responses to questions should not exceed 500 words, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
  - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
  - Identify one significant contemporary issue or problem in U.S. healthcare and explore how members of the nursing profession can help address that issue or solve that problem
- Curriculum Vitae which reflects prior education, clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations.
- Requires 3 professional recommendations.
- An interview with faculty may also be required.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for post-master’s preparation for advanced nursing practice.

Upon admission to the program, the student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Graduate Application Deadlines

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2021-2022 Graduate Catalog
Graduate School Contact
Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements
Required Courses
19 Total Credits

- Complete all of the following
  - Complete the following:
    - NGR6334 - Women's Health for APNs (2)
    - NGR6201 - Adult I Primary Care (3)
    - NGR6240L - Adult I Clinical for APNs (3)
    - NGR6263 - Gerontologic Care for APNs (3)
    - NGR6263L - Gerontologic Care Clinical for NPs (2)
    - NGR6202L - Adult II Primary Care Clinical (3)
    - NGR6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum (3)
  - The following courses include clinical hours: NGR 6240L - Adult I Clinical for APNs (180 clinical hours) NGR 6263L - Gerontologic Care Clinical for NPs (120 clinical hours) NGR 6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum (180 clinical hours)

Grand Total Credits: 19

Family Nurse Practitioner Graduate Certificate

College
College of Nursing

Department
Department of Nursing Practice

Program Website
http://www.nursing.ucf.edu

Program Contact Information
Valerie Martinez, DNP, APRN, CPNP-PC
Clinical Assistant Professor
Valerie Martinez@ucf.edu
Telephone: 407-823-5024
UTWR 459

Is this program available 100% online?
No

Licensure Disclosure
For information on how this program may prepare you for professional licensure, please visit https://apq.ucf.edu/files/Licensure-Disclosure-Family-Nurse-Practitioner-GC.pdf.
Program Description

The post-master’s Family Nurse Practitioner Graduate Certificate prepares nurses who already have received a master’s degree in nursing for positions as Family Nurse Practitioners. Graduates of this program are eligible to sit for the Family Nurse Practitioner (FNP) National Board Certification Examination offered by the American Academy of Nurse Practitioners Certification Board or the American Nurses Credentialing Center.

Program Objectives

- Analyze social, economic, ethical, cultural, legal and political issues influencing nursing practice and health care in a global context.
- Collaborate with leaders in nursing and other disciplines to improve the quality of professional nursing practice and the healthcare system.
- Develop and implement leadership, management and teaching strategies for the improvement of health and healthcare.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy to improve the health of communities.
- Participate in lifelong learning activities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities and nursing theories to support advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skills.
- Practice in an advanced nursing role.

For information on how this program may prepare you for professional licensure, please visit https://apq.ucf.edu/files/Licensure-Disclosure-Family-Nurse-Practitioner-GC.pdf.

The certificate program is 22 credit hours and includes up to 720 hours of clinical practice. There are 12 credit hours of prerequisite requirements.

**Total Credit Hours Required: 22 Credit Hours Minimum beyond the Master’s Degree**

Program Prerequisites

- BSN and MSN degree from an accredited institution.
- Undergraduate Statistics course.
- Licensure as an advanced practice registered nurse (APRN) in the State of Florida. (Out of state applicants must be eligible for licensure in Florida and must achieve licensure to begin clinical courses.)
- Students must demonstrate successful completion of the following courses:
  - NGR 5003 - Advanced Health Assessment and Diagnostic Reasoning 2 Credit Hours
  - NGR 5003L - Advanced Health Assessment and Diagnostic Reasoning Lab 1 Credit Hours (60 clinical hours)
  - NGR 5141 - Pathophysiological Bases for Advanced Nursing Practice 3 Credit Hours
  - NGR 5638 - Health Promotion 3 Credit Hours
  - NGR 6172 - Pharmacology for Advanced Nursing Practice 3 Credit Hours
Application Requirements

Admission is open to those with MSN Degrees and is licensed as an advanced practice registered nurse, but who are not prepared as Family Nurse Practitioners. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN and MSN degree from an accredited institution.
- Undergraduate Statistics course.
- Licensure as an advanced practice registered nurse (APRN) in the State of Florida. (Out of state applicants must be eligible for licensure in Florida and must achieve licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Responses to questions should not exceed 500 words, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
  - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
  - Identify one significant contemporary issue or problem in U.S. healthcare and explore how members of the nursing profession can help address that issue or solve that problem
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations.
- Requires 3 professional recommendations.
- An interview with faculty may also be required.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for post-master's preparation for advanced nursing practice.

Upon admission to the program, the student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

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Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

2021-2022 Graduate Catalog
Degree Requirements

Required Courses
22 Total Credits

- Complete all of the following
  - Complete the following:
    - NGR6334 - Women’s Health for APNs (2)
    - NGR6201 - Adult I Primary Care (3)
    - NGR6240L - Adult I Clinical for APNs (3)
    - NGR6263 - Gerontologic Care for APNs (3)
    - NGR6263L - Gerontologic Care Clinical for NPs (2)
    - NGR6305 - Pediatric Primary Care (3)
    - NGR6305L - Pediatric Primary Care Clinical (2)
    - NGR6342L - Women’s Health for APNs Clinical (1)
    - NGR6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum (3)
  - The following courses include clinical hours: NGR 6240L - Adult I Clinical for APNs (180 clinical hours) NGR 6263L - Gerontologic Care Clinical for NPs (120 clinical hours) NGR 6305L - Pediatric Primary Care Clinical (120 clinical hours) NGR 6342L - Women’s Health for APNs Clinical (60 clinical hours) NGR 6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum (180 clinical hours)

Grand Total Credits: 22

Health Care Simulation Graduate Certificate

College
College of Nursing

Department
Department of Nursing Practice

Program Website
http://www.nursing.ucf.edu/

Program Contact Information
Mindi Anderson PhD, ARNP, CPNP-PC, CNE, CHSE-A, ANEF, FAAN
Program Director of Nursing and Health Care Simulation
mindi.anderson@ucf.edu
Telephone: 407-823-1956
UTWR 455

Is this program available 100% online?
Yes

UCF Online

Please note: Health Care Simulation Graduate Certificate may be completed fully online with some required campus activities. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

You may pursue this UCF College of Nursing online program as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-Health-Care-Simulation-Online-GC.pdf.
Program Description
The Graduate Certificate in Health Care Simulation prepares nurses, members of other healthcare disciplines, administrators and simulation and technology professionals to design, manage and evaluate healthcare simulations for basic education and improvement of team healthcare delivery.

Program Objectives
- Analyze social, economic, ethical cultural legal and political issues influence nursing and health practice in a global context
- Collaborate with leaders in nursing and other disciplines to improve the quality of professional healthcare practice and the outcomes of care
- Develop and implement innovative applications for simulation experiences in health care
- Evaluate models of delivery of simulation in education and healthcare settings in terms of effectiveness
- Evaluate the cost-benefit of the use of simulation in healthcare and education

The certificate program requires three courses, for a total of 9 credit hours.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites
- Undergraduate Statistics course.

Application Requirements
Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis. In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Baccalaureate degree from an accredited institution.
- Undergraduate Statistics course.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
  - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
  - Identify one significant contemporary issue/problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with a graduate adviser to discuss your academic goals. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for Masters-level preparation for advanced nursing practice.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $100 per certificate program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Health Care Simulation Graduate Certificate</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<td>Domestic Applicants</td>
<td>Apr 1</td>
<td>Sept 1</td>
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<tr>
<td>International Applicants</td>
<td></td>
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</tbody>
</table>
**Graduate School Contact**

Grace Guilliams  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

Required Courses  
9 Total Credits

- Complete the following:
  - NGR6717 - Introduction to Healthcare Simulation (3)  
  - NGR6794 - Organizational Leadership and Operations in Healthcare Simulation (3)  
  - NGR6978 - Healthcare Simulation Capstone Project (3)

Optional Courses (Optional)  
0 Total Credits

- Students may take the following course as an additional, optional course: NGR 6771L - Healthcare Simulation Practicum VAR  
Credit Hours

Grand Total Credits: 9

---

**Nursing Education Graduate Certificate**

**College**

College of Nursing

**Department**

Department of Nursing Systems

**Program Website**

http://www.nursing.ucf.edu/

**Program Contact Information**

Susan Quelly PhD, RN, CNE  
Associate Professor  
susan.quelly@ucf.edu  
Telephone: 407.823.0645  
UTWR 428

**Is this program available 100% online?**

Yes
Please note: Nursing Education Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

You may pursue this UCF College of Nursing online program as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.

Licensure Disclosure

For information on how this program may prepare you for professional licensure, please visit https://apq.ucf.edu/files/Licensure-Disclosure-Online-Nursing-Education-GC.pdf.

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

UCF is also an approved institution of the National Council for State Authorization Reciprocity Agreement (NC-SARA). Membership in NC-SARA requires the university to disclose information regarding state licensing and certification requirements for the selected program of study when licensing and/or certification are a requirement to practice in the profession after graduation.

While licensure or certification may be available in this field of study, this program does not lead to such licensure or certification upon graduation. The professional preparation you receive in our program may still assist you in such pursuits; however, we are unable to confirm the specific licensure and certification requirements of each state, territory, or foreign entity in which professional credentialing may be possible. If you intend to pursue such credentialing in your state or elsewhere, we advise you to contact the applicable state credentialing authority to familiarize yourself with its specific requirements and determine if our program meets its academic criteria.

You are welcome to contact the College of Nursing's Assistant Dean of Students with questions in this regard, and we will do our best to assist you in your career planning.

Program Description

The Graduate Certificate in Nursing Education is designed to prepare nurses and other healthcare professionals to teach in professional health care education programs, health care agencies, and the community. The certificate program can be completed entirely online.

Program Objectives

- Analyze social, economic, ethical, cultural, legal and political issues influencing nursing practice and health care in a global context.
- Collaborate with leaders in nursing and other disciplines to improve the quality of professional nursing practice and the healthcare system.
- Develop and implement leadership, management and teaching strategies for the improvement of health and healthcare.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy to improve the health of communities.
- Participate in lifelong learning activities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities and nursing theories to support an advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skills.
- Practice in an advanced nursing role.

The certificate program requires three courses, for a total of 9 credit hours.

Total Credit Hours Required: 9 Credit Hours Minimum beyond the Master's Degree

Program Prerequisites

MSN degree earned or in progress from an accredited institution.
**Application Requirements**

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission to the program is competitive on a space-available basis. In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- MSN degree earned or in progress from an accredited institution.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
  - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
  - Identify one significant contemporary issue/problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at (407) 823-2744 to schedule an appointment with a graduate adviser to discuss your academic goals. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for Masters-level preparation for advanced nursing practice.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $100 per certificate program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a “hold” service indicator will be placed to prevent future enrollment and other progression functions.

**Graduate Application Deadlines**

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<th>Nursing Education Graduate Certificate</th>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Grace Guilliams  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
**Degree Requirements**

Required Courses

9 Total Credits

- Complete the following:
  - NGR6718 - Evaluation in Nursing Education (3)
  - NGR6791 - Teaching Strategies for Nurse Educators (3)
  - NGR6713 - Curriculum Development in Nursing Education (3)

Grand Total Credits: 9

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**Nursing MSN**

**College**

College of Nursing

**Department**

Department of Nursing

**Program Website**

http://www.nursing.ucf.edu/

**Program Handbook**

Nursing MSN

**Program Contact Information**

Joellen Edwards, PhD  
Professor  
gradnurse@ucf.edu  
Telephone: 407-823-6274  
UTWR 326

**Is this program available 100% online?**

Yes

**UCF Online**

Please Note: The Nursing MSN may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

You may pursue this UCF College of Nursing online program as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
Program Description

The Master of Science in Nursing (MSN) programs build upon the student's baccalaureate nursing education and professional experience. The Master of Science in Nursing program is accredited by the Commission on Collegiate Nursing Education (CCNE).

The College of Nursing also offers admission to its master's degree programs in nursing to Registered Nurses who have completed an AS in Nursing or diploma nursing program and have bachelor's degrees in fields other than nursing. These students will need to take 9 credits of undergraduate upper-division course work as the prerequisite for graduate study in nursing. Please contact gradnurse@ucf.edu for more information.

The goal of the Master of Science in Nursing program is to prepare advanced practice nurses, nurse educators, and nursing leaders and managers to assume leadership positions in a variety of healthcare settings. Graduates of these programs are eligible to sit for national certification examinations in their respective specialties.

Program Objectives

The programs prepare students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support advanced nursing practice.
- Plan, evaluate, and implement the delivery of health care using critical thinking skills in an advanced nursing role.

This degree has 6 tracks: Adult-Gerontology Acute Care Nurse Practitioner Track, Adult-Gerontology Primary Care Nurse Practitioner Track, Family Nurse Practitioner Track, Leadership and Management Track, Nurse Educator Track, and Nursing and Health Care Simulation Track. Please scroll to the bottom of this page for further details on these Tracks.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Students must choose a track to apply for the MSN program. All tracks contain the same base admission requirements listed below, however, please review the Catalog entry for your track of interest and additional application requirements.

The following application information is provided for applicants who have completed a bachelor's degree. (For applicants without a bachelor's degree interested in the RN to MSN Program please contact the College of Nursing Undergraduate Office at gradnurseadvisor@ucf.edu for an advising appointment). In addition to the general UCF graduate application requirements applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution.*
- Undergraduate Statistics course.
- Florida license required for all students who will be taking clinical and practice courses in Florida health care agencies and institutions. For those students at a distance, a license is required in the state or country in which they practice.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
  - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
  - Identify one significant contemporary issue/problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an MSN adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for Masters-level preparation for advanced nursing practice.

*Licensed RNs who have completed an accredited AS in Nursing or diploma nursing program and Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurseadvisor@ucf.edu for additional options.

Upon admission to the program students will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. A student must be able to meet clinical partner background requirement to continue in the program.

The College of Nursing uses a student information management system, LEAP®RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP®RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a “hold” service indicator will be placed to prevent future enrollment and other progression functions.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

2021-2022 Graduate Catalog
Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Nursing MSN - Nursing MSN, Adult-Gerontology Acute Care Nurse Practitioner Track

College
College of Nursing

Department
Department of Nursing Practice

Track Website
http://www.nursing.ucf.edu/

Track Contact Information
Christopher Blackwell PhD
Associate Professor
christopher.blackwell@ucf.edu
Telephone: 407-823-2744
UTWR 453

Is this track available 100% online?
No
Track Description

This track will not be accepting applications or enrolling new students effective Fall 2018.

The Adult-Gerontology Acute Care Nurse Practitioner (AGACNP) Track in the Master of Science in Nursing (MSN) program prepares the advanced practice nurse to care for patients with medically complex stable and unstable acute, critical and chronic illnesses across care settings ranging from hospitals to subacute, ambulatory care, clinic and home care environments. The program provides a spectrum of care from disease prevention to acute and critical care management.

The track provides a spectrum of care from disease prevention to acute and critical care management. The curriculum prepares students for both the AGACNP board certification examination administered through the American Nurses Credentialing Center and the Acute Care Nurse Practitioner--Adult-Gerontology certification examination administered through the American Association of Critical Care Nurses.

Program Objectives

The program prepares students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support the advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skill in an advanced nursing role.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Official, competitive GRE score taken within the last five years.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double spaced, 12 point Times New Roman font, and 1 inch margins:
  - Discuss the impact of the graduate nursing education in your desired track on the evolution of your professional role
  - Describe the path you would take to ensure success in your graduate nursing education
  - Identify one significant contemporary issue of problem in US healthcare and explore how members of the nursing profession can help address that issues or solve that problem
- Curriculum Vitae: CV should reflect prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates, this can include accomplishments as a student.
- An interview with faculty may also be required.

*For Students with an RN license and a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu or 407-823-2744 for additional options.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with a MSN adviser to discuss your goals for masters study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for master-level preparation for advanced nursing practice.

Admission to the program is competitive, based on evaluations of the applicant's abilities, past performance, recommendations, FDLE/FBI finger printing and certified background checks, and the match of UCF programs with the applicant's career goals. The College of Nursing accepts most qualified students. Since enrollment is limited, not all students who apply may be accepted, even if minimum requirements are met.

Effective August 2017, the College of Nursing will be implementing a database, LEAP*RN (ProjectConcert) to manage information regarding student course work and plans of study, clinical placements, and all evaluation data. This database will assist us in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. All students will be responsible for an annual subscription of $77.40 payable directly to ProjectConcert. Holds will be placed on registration and enrollment if the subscription cost is not paid. Further information will be disseminated early in the summer.

2021-2022 Graduate Catalog
**Graduate School Contact**

**Grace Guilliams**
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

**Mailing Address**
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

**Degree Requirements**

Core Courses
24 Total Credits

- Complete the following:
  - NGR5003 - Advanced Health Assessment and Diagnostic Reasoning (2)
  - NGR5003L - Advanced Health Assessment and Diagnostic Reasoning Lab (1)
  - NGR5141 - Pathophysiological Bases for Advanced Nursing Practice (3)
  - NGR5638 - Health Promotion (3)
  - NGR5800 - Theory for Advanced Practice Nursing (3)
  - NGR6172 - Pharmacology for Advanced Nursing Practice (3)
  - NGR6801 - Research Methods (3)
  - NGR6813 - Evidence Based Nursing Practice (3)
  - NGR7913 - Doctoral Project 3 (3)

Specialty Courses
23 Total Credits

- Complete the following:
  - NGR6210 - Adult-Gerontology Acute Care Nurse Practitioner I (3)
  - NGR6230L - Diagnostics and Skills for the Critically Ill (2)
  - NGR6211 - Adult-Gerontology Acute Care Nurse Practitioner II (3)
  - NGR6211L - Adult-Gerontology Acute Care Nurse Practitioner II Clinical (3)
  - NGR6175 - Critical Care Pharmacology (3)
  - NGR6212 - Adult-Gerontology Acute Care Nurse Practitioner III (3)
  - NGR6212L - Adult-Gerontology Acute Care Nurse Practitioner III Clinical (3)
  - NGR8215L - Adult-Gerontology Acute Care Nurse Practitioner Practicum (3)

Grand Total Credits: 47
Track Details

Progress to Degree
Students are required to maintain a 3.0 grade point average. Students who receive a grade of below "B" in any course will be reviewed by the MSN/DNP Admissions, Progression and Graduation Committee for continuation in the program. Grades of below "B" are not acceptable in the doctoral program in the College of Nursing. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements
- All course work completed with a minimum grade of "B"
- Clinical performance evaluated at a satisfactory level

College of Nursing Master's Program Handbook
All master's students are required to read the College of Nursing Master's Program Handbook regarding policies for each program and for academic progression. Information about each program, particularly clinical placements and forms for appeals to the Master's APG Committee, are located in the Nursing MSN Handbook.

Equipment Fee
Full-time students in all Master of Science in Nursing Programs pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 each semester.

Independent Learning
An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the final semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the student's MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.

Nursing MSN - Nursing MSN, Adult-Gerontology Primary Care Nurse Practitioner Track

College
College of Nursing

Department
Department of Nursing Practice

Track Website
http://www.nursing.ucf.edu/

Is this track available 100% online?
No
**Track Description**

This track will not be accepting applications or enrolling new students effective Fall 2018.

The Master of Science in Nursing (MSN) program in the Adult/Gerontology Primary Care Nurse Practitioner Track prepares nurses for advanced primary care practice in the current healthcare environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, and leadership.

The MSN Adult/Gerontology Primary Care Nurse Practitioner Track allows students to sit for certification examinations when they have completed the list of courses required. Certification authorizes them to function in the advanced role. Enrolling in the DNP program is an option after completion of the MSN.

**Program Objectives**

The program prepares students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support the advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skill in an advanced nursing role.

The College of Nursing also offers admission to its master degree programs in nursing to Registered Nurses who have bachelor degrees in fields other than nursing. These students will need to take 8 credits of undergraduate upper division course work as the prerequisite for graduate study in nursing. Please contact gradnurse@ucf.edu for more information.

The College also offers an RN to MSN plan of study that provides an accelerated program for RNs who do not hold a baccalaureate degree but have met general education requirements. Students admitted under this plan of study will complete requirements for both the BSN and MSN programs. See RN to MSN program below for more information. A separate application to the graduate program will be required upon completion of the BSN degree. Admission to the MSN program is competitive and not guaranteed.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Official, competitive GRE score taken within the last five years.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double spaced, 12 point Times New Roman font, and 1 inch margins:
  - Discuss the impact of the graduate nursing education in your desired track on the evolution of your professional role
  - Describe the path you would take to ensure success in your graduate nursing education
  - Identify one significant contemporary issue or problem in US health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates this can include accomplishments as a student.
- An interview with faculty may also be required.

*For RNs with a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing at gradnurse@ucf.edu or 407-823-2744 for additional options.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office (407-823-2744) to speak with an adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice.

Admission to the program is competitive, based on evaluation of the applicant’s abilities, past performance, recommendations, FDLE/FBI finger printing and certified background checks, and the match of UCF’s master’s programs with career goals. The College of Nursing accepts the most qualified students. Since enrollment is limited, not all students who apply may be accepted, even if minimum requirements are met.

Effective August 2017, the College of Nursing will be implementing a database, LEAP*RN (ProjectConcert) to manage information regarding student course work and plans of study, clinical placements, and all evaluation data. This database will assist us in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. All students will be responsible for an annual subscription of $77.40 payable directly to ProjectConcert. Holds will be placed on registration and enrollment if the subscription cost is not paid. Further information will be disseminated early in the summer.
Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core Courses
24 Total Credits

- Complete the following:
  - NGR5003 - Advanced Health Assessment and Diagnostic Reasoning (2)
  - NGR5003L - Advanced Health Assessment and Diagnostic Reasoning Lab (1)
  - NGR5141 - Pathophysiological Bases for Advanced Nursing Practice (3)
  - NGR5638 - Health Promotion (3)
  - NGR5800 - Theory for Advanced Practice Nursing (3)
  - NGR6172 - Pharmacology for Advanced Nursing Practice (3)
  - NGR6801 - Research Methods (3)
  - NGR6813 - Evidence Based Nursing Practice (3)
  - NGR7913 - Doctoral Project 3 (3)

Specialty Courses
19 Total Credits

- Complete the following:
  - NGR6334 - Women's Health for APNs (2)
  - NGR6201 - Adult I Primary Care (3)
  - NGR6240L - Adult I Clinical for APNs (3)
  - NGR6202L - Adult II Primary Care Clinical (3)
  - NGR6263 - Gerontologic Care for APNs (3)
  - NGR6263L - Gerontologic Care Clinical for NPs (2)
  - NGR6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum (3)

Grand Total Credits: 43
Track Details

Progress to Degree

Students are required to maintain a 3.0 grade point average. Students who receive a grade of below B in any course will be reviewed by the MSN/DNP Admissions, Progression and Graduation Committee for continuation in the program. Grades of below B are not acceptable in the doctoral program in the College of Nursing. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- Clinical performance evaluated at a satisfactory level

College of Nursing Master's Program Handbook

All master's students are required to read the College of Nursing Master's Program Handbook regarding policies for each program and for academic progression. Information about each program, particularly clinical placements and forms for appeals to the Master's APG Committee, are located in the Nursing MSN Handbook.

Equipment Fee

Full-time students in all Master of Science in Nursing Programs pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 each semester.

Independent Learning

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the final semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the student's MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.

Nursing MSN - Nursing MSN, Family Nurse Practitioner Track

College

College of Nursing

Department

Department of Nursing Practice

Track Website

http://www.nursing.ucf.edu/

Is this track available 100% online?

No
**Track Description**

This track will not be accepting applications or enrolling new students effective Fall 2018.

The Master of Science in Nursing (MSN) program in the Family Nurse Practitioner Track prepares nurses for advanced primary care practice in the current healthcare environment based on a strong scientific foundation for practice, flexibility, and emphasis on evidence-based practice and leadership.

The MSN Family Nurse Practitioner Track allows students to sit for certification examinations when they have completed the list of courses required. Certification authorizes them to function in the advanced role. Enrolling in the DNP program is an option after completion of the MSN. The program can be completed in 6 semesters as a full-time student or 8 semesters as a part-time student.

**Program Objectives**

The program prepares students to:
- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support the advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skill in an advanced nursing role.

The College of Nursing also offers admission to its master degree programs in nursing to Registered Nurses who have bachelor degrees in fields other than nursing. These students will need to take 8 credits of undergraduate upper-division coursework as a prerequisite for graduate study in nursing. Please contact gradnurse@ucf.edu for more information.

The College also offers an RN to MSN plan of study that provides an accelerated program for RNs who do not hold a baccalaureate degree but have met general education requirements. Students admitted under this plan of study will complete requirements for both the BSN and MSN programs. See RN to MSN program below for more information. A separate application to the graduate program will be required upon completion of the BSN degree. Admission to the MSN program is competitive and not guaranteed.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:
- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Official, competitive GRE score taken within the last five years.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double spaced, 12 point Times New Roman font, and 1-inch margins:
  - Discuss the impact of the graduate nursing education in your desired track on the evolution of your professional role.
  - Describe the path you would take to ensure success in your graduate nursing education.
  - Identify one significant contemporary issue or problem in US health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates, this can include accomplishments as a student.
- An interview with faculty may also be required.

*For RNs with a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu for additional options.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office (407-823-2744) to speak with an adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice. Students are admitted to the program in the fall for the program of study; however, spring admissions are possible for a revised plan of study.

Admission to the program is competitive, based on evaluation of the applicant's abilities, past performance, recommendations, FDLE/FBI fingerprinting and certified background checks, and the match of UCF's master's programs with career goals. The College of Nursing accepts the most qualified students. Since enrollment is limited, not all students who apply may be accepted, even if minimum requirements are met.

Effective August 2017, the College of Nursing will be implementing a database, LEAP*RN (ProjectConcert) to manage information regarding student course work and plans of study, clinical placements, and all evaluation data. This database will assist us in maintaining the standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. All students will be responsible for an annual subscription of $77.40 payable directly to ProjectConcert. Holds will be placed on registration and enrollment if the subscription cost is not paid. Further information will be disseminated early in the summer.
Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
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Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core Courses
24 Total Credits
- Complete the following:
  - NGR5003 - Advanced Health Assessment and Diagnostic Reasoning (2)
  - NGR5003L - Advanced Health Assessment and Diagnostic Reasoning Lab (1)
  - NGR5141 - Pathophysiological Bases for Advanced Nursing Practice (3)
  - NGR5638 - Health Promotion (3)
  - NGR5800 - Theory for Advanced Practice Nursing (3)
  - NGR5884 - Legal and Professional Behavior in Advanced Practice Nursing (3)
  - NGR6172 - Pharmacology for Advanced Nursing Practice (3)
  - NGR6801 - Research Methods (3)
  - NGR6813 - Evidence Based Nursing Practice (3)

Specialty Courses
22 Total Credits
- Complete the following:
  - NGR6334 - Women's Health for APNs (2)
  - NGR6201 - Adult I Primary Care (3)
  - NGR6240L - Adult I Clinical for APNs (3)
  - NGR6263 - Gerontologic Care for APNs (3)
  - NGR6263L - Gerontologic Care Clinical for NPs (2)
  - NGR6305 - Pediatric Primary Care (3)
  - NGR6305L - Pediatric Primary Care Clinical (2)
  - NGR6342L - Women's Health for APNs Clinical (1)
  - NGR6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum (3)

Grand Total Credits: 46
**Track Details**

**Progress to Degree**

Students are required to maintain a 3.0 grade point average. Students who receive a grade of below B in any course will be reviewed by the MSN/DNP Admissions, Profession and Graduation Committee for continuation in the program. Grades of below B are not acceptable in the doctoral program in the College of Nursing. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

**Graduation Requirements**

- All course work completed with a minimum grade of "B"
- Clinical performance evaluated at a satisfactory level

**College of Nursing Master's Program Handbook**

All students completing the master's along the way are required to read the College of Nursing Master's Program Handbook regarding policies for each program and for academic progression. Information about each program, particularly clinical placements and forms for appeals to the Master's APG Committee are located in the Nursing MSN Handbook.

**Equipment Fee**

Full-time students in all Master of Science in Nursing Programs pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 each semester.

**Independent Learning**

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the final semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the students MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.

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**Nursing MSN - Nursing MSN, Leadership and Management Track**

**College**

College of Nursing

**Department**

Department of Nursing Systems

**Track Website**

http://www.nursing.ucf.edu/

**Track Handbook**

Nursing MSN

**Track Contact Information**

**Nora Warshawsky PhD, RN, CNE, NEA-BC, FAAN**  
Professor  
nora.warshawsky@ucf.edu  
Telephone: 407-823-5468  
UTWR 473

**Is this track available 100% online?**

Yes
Please note: Nursing (MSN) - Leadership and Management may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees. You may pursue this UCF College of Nursing online program as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

NOTE FOR INTERNATIONAL STUDENTS: Please contact the College of Nursing at gradnurse@ucf.edu or 407-823-2744 prior to applying to this online program.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

Licensure Disclosure

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-Nursing-MSN-Online-Leadership-and-Management.pdf.

Track Description

The Leadership and Management track of the MSN is designed to equip nurses with the managerial and leadership skills necessary to become administrative leaders in the health care industry. The program requires 36 credit hours of coursework and includes leadership practicum experiences.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

- BSN degree from an accredited institution.*
- Undergraduate Statistics course.
- RN license the state in which you practice.

*Licensed RNs who have completed an accredited AS in Nursing or diploma nursing program and Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurseadvisor@ucf.edu for additional options.

Students who are Registered Nurses and have completed an AS in Nursing or diploma nursing program and have a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice 3 Credit Hours
- NUR 4637 - Public Health Nursing 3 Credit Hours
- NUR 3165 - Nursing Research 3 Credit Hours
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution.*
- Undergraduate Statistics course.
- The GRE is not required for admission to this program.
- RN license the state in which you practice.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
  - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
  - Identify one significant contemporary issue/problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an MSN adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for Masters-level preparation for advanced nursing practice.

*Licensed RNs who have completed an accredited AS in Nursing or diploma nursing program and Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurseadvisor@ucf.edu for additional options.

Upon admission to the program, students will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. A student must be able to meet clinical partner background requirement to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a *hold* service indicator will be placed to prevent future enrollment and other progression functions.

### Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Leadership and Management</th>
<th>*Fall Priority</th>
<th>Fall</th>
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<th>Summer</th>
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<td>Domestic Applicants</td>
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<td>Apr 1</td>
<td>Sept 1</td>
<td></td>
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<tr>
<td>International Applicants</td>
<td></td>
<td></td>
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</tbody>
</table>

**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
36 Total Credits

- Complete all of the following
  - Complete the following:
    - NGR5800 - Theory for Advanced Practice Nursing (3)
    - NGR5884 - Legal and Professional Behavior in Advanced Practice Nursing (3)
    - NGR5720 - Organizational Dynamics (3)
    - NGR5871 - Health Care Informatics (3)
    - NGR6722 - Financial Management and Resource Development (3)
    - NGR6723 - Nursing Leadership and Management (3)
    - NGR6723L - Nursing Leadership Role Specialization Practicum (3)
    - NGR6801 - Research Methods (3)
    - NGR6813 - Evidence Based Nursing Practice (3)
    - NGR6874 - Nursing Environment Management (3)
    - NGR6772L - Nurse Leadership and Management Internship (3)

- Earn at least 3 credits from the following types of courses:
  Graduate Elective

Grand Total Credits: 36

Track Details

College of Nursing Master's Program Handbook

All master's students are required to read the College of Nursing Master’s Program Handbook regarding policies for each program and for academic progression. Information about each program, particularly clinical placements and forms for appeals to the Master’s APG Committee, are located in the Nursing MSN Handbook.

Equipment Fee

Full-time students in all Master of Science in Nursing programs pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 each semester.

Independent Learning

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the final semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the students MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Nursing MSN - Nursing MSN, Nurse Educator Track

College
College of Nursing

Department
Department of Nursing Systems

Track Website
http://www.nursing.ucf.edu/

Track Handbook
Nursing MSN

Track Contact Information

Susan Quelly PhD, RN, CNE
Associate Professor
susan.quelly@ucf.edu
Telephone: 407.823.0645
UTWR 428

Is this track available 100% online?
Yes

UCF Online

Please note: Nursing (MSN)-Nurse Educator may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

You may pursue this UCF College of Nursing online program as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.
Licensure Disclosure

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-Online-Nurse-Educator-MSN.pdf.

Track Description

The Master of Science in Nursing (MSN) programs build upon the student's baccalaureate nursing education and professional experience. The Master of Science in Nursing program is accredited by the Commission on Collegiate Nursing Education (CCNE). The Nurse Educator track is delivered fully online. It prepares nurse educators for teaching positions in colleges and universities, as well as practice settings.

Program Objectives

The program prepares students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skill in an advanced nursing role.

The Nurse Educator Track in the Nursing MSN program requires 18 credit hours of nursing courses and 17 credit hours of education courses for a total of 35 credit hours of graduate coursework.

Total Credit Hours Required: 35 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

- BSN degree from an accredited institution.*
- Undergraduate Statistics course.
- RN license the state in which you practice.

*Licensed RNs who have completed an AS in Nursing or diploma nursing program and Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurseadvisor@ucf.edu for additional options.

Students who are licensed RNs who have completed an accredited AS in Nursing or diploma nursing program and have a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice 3 Credit Hours
- NUR 4637 - Public Health Nursing 3 Credit Hours
- NUR 3165 - Nursing Research 3 Credit Hours
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution.*
- Undergraduate Statistics course.
- The GRE is not required for admission to this program.
- RN license the state in which you practice.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
  - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
  - Identify one significant contemporary issue/problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an MSN adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for Masters-level preparation for advanced nursing practice.

*Licensed RNs who have completed an accredited AS in Nursing or diploma nursing program and Bachelor’s degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurseadvisor@ucf.edu for additional options.

Upon admission to the program, students will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. A student must be able to meet clinical partner background requirement to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Nurse Educator</th>
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<th>Fall</th>
<th>Spring</th>
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<td>International Applicants</td>
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</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Nursing Courses
18 Total Credits

- Complete the following:
  - NGR5638 - Health Promotion (3)
  - NGR5141 - Pathophysiological Bases for Advanced Nursing Practice (3)
  - NGR5800 - Theory for Advanced Practice Nursing (3)
  - NGR5884 - Legal and Professional Behavior in Advanced Practice Nursing (3)
  - NGR6801 - Research Methods (3)
  - NGR6813 - Evidence Based Nursing Practice (3)

Required Education Courses
17 Total Credits

- Complete the following:
  - NGR6713 - Curriculum Development in Nursing Education (3)
  - NGR6791 - Teaching Strategies for Nurse Educators (3)
  - NGR6718 - Evaluation in Nursing Education (3)
  - NGR6942C - Internship in Nursing Education (4)
  - NGR6945L - Clinical Specialty Practicum (1)
  - NGR5190 - Core Clinical Concepts for Nurse Educators (3)

Grand Total Credits: 35

Track Details

College of Nursing Master’s Program Handbook

All master’s students are required to read the College of Nursing Master’s Program Handbook regarding policies for each program and for academic progression. Information about each program, particularly clinical placements and forms for appeals to the Master’s APG Committee, are located in the Nursing MSN Handbook.

Equipment Fee

Full-time students in all Master of Science in Nursing programs pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 each semester.

Independent Learning

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the last or next to last semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the students MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Nursing MSN - Nursing MSN, Nursing and Health Care Simulation Track

College
College of Nursing

Department
Department of Nursing Practice

Track Website
http://www.nursing.ucf.edu/

Track Handbook
Nursing MSN

Track Contact Information

Mona Shattell, PhD, RN, FAAN
Chair and Professor, Department of Nursing Systems
Hugh F. and Jeannette G. McKean Endowed Chair
Mona.Shattell@ucf.edu
Telephone: 407-823-2744
UTWR 326

Is this track available 100% online?
Yes
**UCF Online**

**Please note:** Nursing (MSN) - Nursing and Health Care Simulation may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

You may pursue this UCF College of Nursing online program **as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.**

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit [http://global.ucf.edu/](http://global.ucf.edu/). If you have questions, please consult UCF Global at 407-823-2337.

**Licensure Disclosure**

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit [https://apq.ucf.edu/files/Licensure-Disclosure-Nursing-MSN-Online-Nursing-and-Health-Care-Simulation.pdf](https://apq.ucf.edu/files/Licensure-Disclosure-Nursing-MSN-Online-Nursing-and-Health-Care-Simulation.pdf).

**Track Description**

The Master of Science in Nursing (MSN) program builds upon the student's baccalaureate nursing education and professional experience.

The MSN program is accredited by the Commission on Collegiate Nursing Education (CCNE). The Nursing and Health Care Simulation Track is delivered online with some required campus activities. It prepares simulation-based educators for positions in colleges and universities, as well as in practice settings.

**Program Objectives**

The program prepares students to:

- Analyze social, economic, ethical, cultural, legal, and political issues influencing nursing practice and health care in a global context.
- Develop and implement leadership, management, and teaching strategies for the improvement of health and health care quality and safety.
- Develop practice models of evidence-based nursing practice incorporating nursing research.
- Influence health and public policy in collaboration with other disciplines to improve systems of care and health of communities.
- Participate in research and disseminate research findings through presentation and publication.
- Synthesize advanced knowledge from the sciences, humanities, and theory to support advanced nursing practice.
- Plan, evaluate and implement the delivery of health care using critical thinking skill in an advanced nursing role.

You may pursue this UCF College of Nursing online program **as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.**

UCF College of Nursing faculty are authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

**Track Prerequisites**

BSN degree from an accredited institution.*

RN license the state in which you practice.

Students with a bachelor’s degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of ‘B’ or better.

- **NUR 3805 - Dimensions of Professional Practice** 3 Credit Hours
- **NUR 4637 - Public Health Nursing** 3 Credit Hours
- **NUR 3165 - Nursing Research** 3 Credit Hours

*Licensed RNs who have completed an accredited AS in Nursing or diploma nursing program and Bachelor’s degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurseadvisor@ucf.edu for additional options.*
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution.*
- Undergraduate Statistics course.
- The GRE is not required for admission to this program.
- RN license the state in which you practice.
- Address the following 3 items in a written essay. Total word count for all (not each) answers should be 500 words or less, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe your future career plans and how the program to which you are applying will help you achieve your career goals.
  - Describe the changes you would make in your personal and professional life to ensure success in your graduate nursing education.
  - Identify one significant contemporary issue/problem in U.S. health care and explore how members of the nursing profession can help address that issue or solve that problem.
- Curriculum Vitae should reflect prior education, recent clinical/practice accomplishments, any recent scholarly work (publications, presentations, grants, research participation), awards, scholarships, additional professional certifications, volunteer activities, and membership/leadership/activities with professional organizations and community service organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with an MSN adviser to discuss your goals for graduate study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for Masters-level preparation for advanced nursing practice.

*Licensed RNs who have completed an accredited AS in Nursing or diploma nursing program and Bachelor’s degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurseadvisor@ucf.edu for additional options.

Upon admission to the program, students will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. A student must be able to meet clinical partner background requirement to continue in the program.

The College of Nursing uses a student information management system, LEAP®RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP®RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a “hold” service indicator will be placed to prevent future enrollment and other progression functions.

**Graduate Application Deadlines**

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<thead>
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<th>Nursing and Health Care Simulation</th>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact
Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements
Required Courses
28 Total Credits

- Complete all of the following
  Core Courses
  - Take the following:
    - NGR5141 - Pathophysiological Bases for Advanced Nursing Practice (3)
    - NGR5190 - Core Clinical Concepts for Nurse Educators (3)
    - NGR5800 - Theory for Advanced Practice Nursing (3)
    - NGR5884 - Legal and Professional Behavior in Advanced Practice Nursing (3)
    - NGR6801 - Research Methods (3)
    - NGR6813 - Evidence Based Nursing Practice (3)
    - NGR6945L - Clinical Specialty Practicum (1)

  Required Simulation Courses
  - Take the following:
    - NGR6717 - Introduction to Healthcare Simulation (3)
    - NGR6794 - Organizational Leadership and Operations in Healthcare Simulation (3)
    - NGR6978 - Healthcare Simulation Capstone Project (3)

Elective Courses
3 Total Credits

- Complete all of the following
  - May be taken in other colleges with permission of adviser and faculty presenting the course.
  - Earn at least 3 credits from the following:
    - NGR5003 - Advanced Health Assessment and Diagnostic Reasoning (2)
    - NGR5003L - Advanced Health Assessment and Diagnostic Reasoning Lab (1)
    - NGR5638 - Health Promotion (3)
    - NGR5720 - Organizational Dynamics (3)
    - NGR6722 - Financial Management and Resource Development (3)
    - NGR6713 - Curriculum Development in Nursing Education (3)
    - NGR6718 - Evaluation in Nursing Education (3)
    - NGR6791 - Teaching Strategies for Nurse Educators (3)
    - IDS6147 - Perspectives on Modeling and Simulation (3)
    - IDS6147 - Perspectives on Modeling and Simulation (3)
    - CAP6671 - Intelligent Systems: Robots, Agents, and Humans (3)
    - NGR6771L - Healthcare Simulation Practicum (1 - 99)

Grand Total Credits: 31
Track Details

College of Nursing Master’s Program Handbook

All master’s students are required to read the College of Nursing Master’s Program Handbook regarding policies for each program and for academic progression. Information about each program, particularly clinical placements and forms for appeals to the Master’s APG Committee, are located in the Nursing MSN Handbook.

Equipment Fee

Full-time students in all Master of Science in Nursing programs pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 each semester.

Independent Learning

An independent scholarly work is a requirement for the Master of Science in Nursing degree. The scholarly work consists of an evidence-based nursing project. The scholarly project that is required in NGR 6813 (completed in the final semester of study) is an evidence-based scholarly clinical paper. The evidence-based project should reflect the latest evidence for the student's MSN track. This is a formal paper that must adhere to published guidelines in the syllabus and must be presented in a public forum.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student’s graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Nursing Nondegree

College

College of Nursing

Department

Department of Nursing

Program Website

http://www.nursing.ucf.edu/

Program Contact Information

gradnurseadvisor@ucf.edu
Telephone: 407-823-2744
UTWR 326

Is this program available 100% online?

No
Program Description

Nursing Nondegree students may take nursing graduate courses as a nondegree-seeking post-baccalaureate student on a space-available basis. See the Policies section of this Catalog for details on the possible use of these courses toward a degree. Completion of post-baccalaureate courses does not guarantee admission to the graduate program or their use in a degree program.

Students should choose the Nursing Nondegree option on the application to facilitate processing of files. Students may take nursing graduate classes as a nondegree-seeking post-baccalaureate student on a space-available basis. It is possible that no courses will have space available in a given semester as students in the graduate nursing programs receive priority for enrollment. Please contact the College of Nursing Graduate Office for registration assistance at gradnurseadvisor@ucf.edu.

International students are not eligible for this status unless they hold an eligible visa. International students taking online courses from their home country are eligible to be nondegree seeking since they do not require a visa.

Please Note: In general, Nursing Nondegree students are not eligible for financial aid, assistantships, or fellowships, although it is best to check with the Office of Student Financial Assistance for specific details. Nondegree-seeking students must be enrolled in 9 credit hours or more to be considered in full-time status.

Program Prerequisites

Nursing Nondegree applicants will need to have a Bachelor's Degree from an accredited institution recognized by UCF and evidence of completion of a professional nurse education program (RN).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to completing the online application, Nursing Nondegree applicants will need to submit official, final transcripts from a regionally accredited institution showing a conferred bachelor's degree and evidence of completion of a professional nurse education program (RN).

Nursing Nondegree students will also be required to submit an Immunization Form prior to enrollment. Although this form is not used in the admission process, students will not be allowed to enroll at UCF without submitting the required Immunization Form.

Graduate Application Deadlines

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<th>Nursing Nondegree</th>
<th>*Fall Priority</th>
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</table>

Application Deadlines Notes

Students interested in Nursing Nondegree should contact the College of Nursing (gradnurse@ucf.edu or 407-823-2744) regarding class availability and scheduling prior to applying.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Nursing PhD
Is this program available 100% online?

Yes

UCF Online

Please note: Nursing (PhD) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Doctor of Philosophy program in Nursing is designed to prepare students for positions as nursing faculty members, leaders in the application of innovative technologies to nursing education and clinical care, executive leaders in healthcare systems, and scientists who contribute to the body of nursing knowledge through their research.

The PhD in Nursing program prepares nurse scholars to possess a body of knowledge about theory, processes, and methods of inquiry in the discipline of nursing. The program allows students to contribute to disciplinary and interdisciplinary knowledge in nursing and healthcare on the basis of sound conceptual, methodological, and ethical decision-making.

Program Outcomes

At the completion of the PhD in Nursing Program, graduates will be able to:

- Conduct research to generate a body of knowledge and test theories that advance nursing science.
- Develop a program of scholarship that integrates research, teaching, leadership, and service to the profession.
- Contribute to interdisciplinary solutions that advance health care in a global society.

This degree has one track: BSN to PhD Track. Please scroll to the bottom of this page for further details on this Track.

For the Nursing PhD, total graduate credit must equal or exceed 72 credit hours. Students take 39 credit hours of required courses that focus on foundation knowledge development and research methods, 15 dissertation credit hours, and 9 credit hours of electives allowing students to gain additional expertise in the area chosen for their dissertation. Details about this program are located in the Nursing PhD Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

- BSN and either MSN or Master’s degree in a related field from an accredited institution or the equivalent.
- Licensure as a Registered Nurse in the state of Florida.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN and either MSN or Master's degree in a related field from an accredited institution or the equivalent.
- Licensure as a Registered Nurse in the state of Florida.
- An essay of no more than 500 words addressing goals for doctoral study to knowledge development for Nursing.
- A personal interview.
- Research interests that match faculty expertise.
- Resume/Curriculum Vitae which reflects prior education, recent clinical accomplishments, any scholarly work (publications and presentations), and activities with professional organizations. For recent graduates, this can include accomplishments as a student.
- Three letters of recommendation evaluating the potential for doctoral study preferably by nursing instructors, nurse employers or nurses with advanced degrees.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

The College of Nursing accepts the most qualified students based on evaluations of the applicant's abilities, past performance, recommendations and match of UCF programs with the applicant's career goals. Students are admitted to the program in the summer for the program of study.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Please call the College of Nursing Graduate Office (407) 823-0133 to speak with a doctoral adviser to discuss your goals for doctoral study. It would be very advantageous to discuss the program before you write your essay in the admission application.

Graduate Application Deadlines

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<thead>
<tr>
<th>Nursing PhD</th>
<th>Fall Priority</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Lawrence Lipe
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Foundation Areas
9 Total Credits

- Complete the following:
  - NGR7115 - Philosophical and Ethical Foundations of Nursing Science  (3)
  - NGR7123 - Theory in Nursing Science  (3)
  - NGR7952 - Scientific Writing for Nurses and Healthcare Professionals  (3)

Research Methods
30 Total Credits

- Complete all of the following
  - NGR7815 - Qualitative Methods in Nursing Research and Healthcare I  (3)
  - NGR7916 - Research Grants Process and Proposal Writing  (3)
  - NGR7817 - Quantitative Methods for Nursing and Healthcare I  (3)
  - NGR7818 - Quantitative Methods for Nursing and Healthcare II  (3)
  - NGR7932 - Nursing Research Grants Process and Proposal Writing  (3)
  - NGR7807 - Research Approaches and Designs for Nursing and Healthcare  (3)
  - NGR7812 - Advanced Study Design and Methods  (3)
  - NGR7823 - Psychometrics and Measurement for Nursing Research  (3)

- Earn at least 6 credits from the following:
  - NGR7919 - Doctoral Research  (1 - 99)

Elective Courses
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  - The supporting course work is designed to permit students to gain additional expertise and knowledge in the area chosen for the dissertation. These courses may vary from student to student depending upon individual needs or objectives. Course selection should be influenced by the following criteria: Increase in understanding of the phenomenon of interest Increase in understanding of specific methodologies or analytical techniques relevant to the student's dissertation. Exposure to experiences relevant to the phenomenon of interest or methodological elements relevant to the student's dissertation. The UCF College of Nursing strongly encourages all PhD students to actively seek out interdisciplinary supporting courses including those offered by other disciplines. All supporting courses must be approved by the student's faculty adviser or dissertation committee chairperson.

Dissertation Research
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - NGR 7980 - Dissertation Research The dissertation research addresses the design and conduct of research that advances nursing science. Students conduct the dissertation in areas of faculty interest and expertise. Students are required to complete at least 15 credit hours of dissertation and are required to register for 3 credit hours of dissertation each semester until they complete the degree requirements.

Doctoral Research
0 Total Credits

- The course NGR 7919 Doctoral Research is designed for students to gain research experience with a faculty researcher. Students must obtain permission from the faculty member before registering for this course and complete the College of Nursing doctoral research form. The purpose of this course is for students to have an experience with research in addition to that of the dissertation. This course is not to be used as a pilot study for the student's dissertation.

Admission to Candidacy and Examinations
0 Total Credits

- The process for candidacy will start with the appointment of the full dissertation advisory committee including the external member. The Candidacy Examination has both written and oral components. When these are completed successfully, the student becomes a doctoral candidate and is eligible to enroll in dissertation credits. When candidacy status is obtained, the student must enroll in at least three-semester credits of dissertation credit each semester until successful oral defense of the dissertation is made and all graduation requirements are completed. The university requires a minimum of 15 dissertation credits. Post-candidacy status is subject to the rules and regulations of the University of Central Florida Graduate Catalog. The following are required to enroll in dissertation hours. Evidence that items have been completed must be received by the UCF Graduate College on the Friday before the first day of classes for those who wish to enroll in dissertation hours in that semester. - Completion of all coursework, except for dissertation hours. - Successful completion of the candidacy examination. - The dissertation advisory committee is formed, consisting of approved graduate faculty, graduate faculty scholars, and the approved external member. - Submittal of an approved program of study (should be finalized by the student's third semester).

Grand Total Credits: 63
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding

Nursing PhD - Nursing PhD, BSN to PhD Track

College
College of Nursing

Department
Department of Nursing Systems

Track Website
http://www.nursing.ucf.edu/

Track Handbook
Nursing PhD

Track Contact Information

Steven Talbert PhD, RN
Clinical Assistant Professor
steven.talbert@ucf.com
Telephone: 407-823-2888
UTWR 431

Is this track available 100% online?
Yes

UCF Online

Please note: Nursing (PhD) may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
**Track Description**

The Doctor of Philosophy program in Nursing is designed to prepare students for positions as nursing faculty members, leaders in the application of innovative technologies to nursing education and clinical care, executive leaders in healthcare systems, and scientists who contribute to the body of nursing knowledge through their research. The BSN to PhD track is designed to support students in completing the PhD in a timely fashion to provide for a longer research career.

The PhD in Nursing program prepares nurse scholars to possess a body of knowledge about theory, processes, and methods of inquiry in the discipline of nursing. The program allows students to contribute to disciplinary and interdisciplinary knowledge in nursing and healthcare on the basis of sound conceptual, methodological, and ethical decision-making. Students in the BSN to PhD track will have focused support in grant writing for programs such as the National Research Service Award (NRSA). Although courses will be offered online, students are expected to actively engage in research activities with faculty, which may require on-campus time.

**Program Outcomes**

At the completion of the PhD in Nursing Program, graduates will be able to:

- Conduct research to generate a body of knowledge and test theories that advance nursing science.
- Develop a program of scholarship that integrates research, teaching, leadership, and service to the profession.
- Contribute to interdisciplinary solutions that advance health care in a global society.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit [http://global.ucf.edu/](http://global.ucf.edu/). If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to [State Restrictions](#) for current information.

**Track Prerequisites**

- A Bachelor's Degree in nursing from an accredited institution or the equivalent.
- Licensure as a Registered Nurse in the state of Florida. (Does not apply to international applicants).

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor's Degree in nursing from an accredited institution or the equivalent.
- Licensure as a Registered Nurse in the state of Florida. (Does not apply to international applicants).
- An essay of no more than 500 words addressing goals for doctoral study to knowledge development for Nursing.
- A personal interview.
- Research interests that match faculty expertise.
- Resume/Curriculum Vitae which reflects prior education, recent clinical accomplishments, any scholarly work (publications and presentations), and activities with professional organizations. For recent graduates, this can include accomplishments as a student.
- Three letters of recommendation evaluating the potential for doctoral study preferably by nursing professors, nurse employers or nurses with advanced degrees.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from [World Education Services (WES)](http://www.wes.org) or [Josef Silny and Associates, Inc.](http://www.jsaonline.com) only.

The College of Nursing accepts the most qualified students based on evaluations of the applicant's abilities, past performance, recommendations and match of UCF programs with applicant's career goals. Students are admitted to the program in the summer for the program of study.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at [https://secure.projectconcert.com/ucf](https://secure.projectconcert.com/ucf) and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Please call the College of Nursing Graduate Office (407) 823-0133 to speak with a doctoral adviser to discuss your goals for doctoral study. It would be very advantageous to discuss the program before you write your essay in the admission application.
### Graduate Application Deadlines

<table>
<thead>
<tr>
<th>BSN to PhD</th>
<th>*Fall Priority</th>
<th>Fall</th>
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<th>Summer</th>
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<tr>
<td>International Applicants</td>
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</tbody>
</table>

**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Lawrence Lipe  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-S8  
TOEFL: 5233  
ETS PPI: 5233

2021-2022 Graduate Catalog
Degree Requirements

Foundation Areas
9 Total Credits

- Complete the following:
  - NGR7952 - Scientific Writing for Nurses and Healthcare Professionals (3)
  - NGR7115 - Philosophical and Ethical Foundations of Nursing Science (3)
  - NGR7123 - Theory in Nursing Science (3)

Research Methods
33 Total Credits

- Complete all of the following
  - Complete the following:
    - NGR7807 - Research Approaches and Designs for Nursing and Healthcare (3)
    - NGR7815 - Qualitative Methods in Nursing Research and Healthcare I (3)
    - NGR7817 - Quantitative Methods for Nursing and Healthcare I (3)
    - NGR7818 - Quantitative Methods for Nursing and Healthcare II (3)
    - NGR7812 - Advanced Study Design and Methods (3)
    - NGR7823 - Psychometrics and Measurement for Nursing Research (3)
    - NGR7916 - Research Grants Process and Proposal Writing (3)
    - NGR7932 - Nursing Research Grants Process and Proposal Writing (3)
  - Earn at least 9 credits from the following:
    - NGR7919 - Doctoral Research (1 - 99)

Elective Courses
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - Students must take three courses (9 credit hours) of supporting course work. The supporting course work is designed to permit students to gain additional expertise and knowledge in the area chosen for the dissertation. These courses may vary from student to student depending upon individual needs or objectives. Course selection should be influenced by the following criteria: Increase in understanding of the phenomenon of interest Increase in understanding of specific methodologies or analytical techniques relevant to the student's dissertation. Exposure to experiences relevant to the phenomenon of interest or methodological elements relevant to the student's dissertation. The UCF College of Nursing strongly encourages all PhD students to actively seek out interdisciplinary supporting courses including those offered by other disciplines. In addition to supporting courses, students will select two elective courses (6 credits) to broaden their knowledge in a general topical area. All elective and supporting courses must be approved by the student's faculty adviser or dissertation committee chairperson.

Dissertation Research
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - NGR 7980 - Dissertation Research The dissertation research addresses the design and conduct of research that advances nursing science. Students conduct the dissertation in areas of faculty interest and expertise. Students are required to complete at least 15 credit hours of dissertation and are required to register for 3 credit hours of dissertation each semester until they complete the degree requirements.

Doctoral Research
0 Total Credits

- The course NGR 7919 Doctoral Research is designed for students to gain research experience with a faculty researcher. Students must obtain permission from the faculty member before registering for this course and complete the College of Nursing doctoral research form. The purpose of this course is for students to have an experience with research in addition to that of the dissertation.

Admission to Candidacy and Examinations
0 Total Credits

- The process for candidacy will start with the appointment of the dissertation advisory committee. The Candidacy Examination has both written and oral components. When these are completed successfully, the student becomes a doctoral candidate and is eligible to enroll in dissertation credits. When candidacy status is obtained, the student must enroll in at least three-semester credits of dissertation credit each semester until successful oral defense of the dissertation is made and all graduation requirements are completed. The university requires a minimum of 15 dissertation credits. Post-candidacy status is subject to the rules and regulations of the University of Central Florida Graduate Catalog. Students are required to complete the following prior to scheduling their candidacy examination: Submittal of an approved program of study (should be finalized by the student's third semester). Completion of all coursework, except for dissertation hours. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Following successful completion of the candidacy examination, the student may enroll in dissertation hours. Evidence that items have been completed must be received by the Graduate College on the Friday before the first day of classes for those who wish to enroll in dissertation hours in that semester.

Grand Total Credits: 72
**Track Details**

Students in the Nursing BSN to PhD program must complete all course work with GPA of 3.0 ("B") or better, a satisfactory dissertation and defense of dissertation.

**Equipment Fee**

Full-time students in the Nursing PhD program pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 each semester.

**Independent Learning**

The dissertation satisfies the independent learning experience.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

**Nursing Practice DNP**

**College**

College of Nursing

**Department**

Department of Nursing

**Program Website**

http://www.nursing.ucf.edu/admissions/graduate-programs/dnp/index

**Program Handbook**

Nursing Practice DNP

**Program Contact Information**

Valerie Martinez, DNP, APRN, CPNP-PC
Clinical Assistant Professor
Valerie.Martinez@ucf.edu
Telephone: 407-823-5024
UTWR 459

**Licensure Disclosure**

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare students in that regard, please visit https://apq.ucf.edu/licensure-programs/.
Program Description

The Doctor of Nursing Practice (DNP) program prepares nurses at the highest level of practice for the current health care environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, leadership, and organizational analysis; and analysis of the DNP Project.

The program offers five tracks: Adult/Gerontology Acute Care Nurse Practitioner, Adult/Gerontology Primary Care Nurse Practitioner, Family Nurse Practitioner, Advanced Practice DNP, and Nurse Executive DNP. Please scroll to the bottom of this page for further details on these tracks.

Program Objectives

The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems.
- Assume leadership roles in the development of clinical practice models, health policy and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.
- Analyze the social, economic, political, epidemiological and other scientific data to improve individual, aggregate and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and healthcare systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate findings.

Note for International Students: Please contact the College of Nursing at gradnurse@ucf.edu or 407-823-2744 prior to applying to this online program.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Financial Information

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finaid@ucf.edu
http://finaid.ucf.edu
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Grad Fellowships
Telephone: 407-823-0127
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https://graduate.ucf.edu/funding/

Nursing Practice DNP - Nursing Practice DNP, Adult-Gerontology Acute Care Nurse Practitioner Track

College
College of Nursing

Department
Department of Nursing Practice

Track Website
http://www.nursing.ucf.edu

Track Handbook
Nursing Practice DNP, Adult-Gerontology Acute Care Nurse Practitioner Track

Track Contact Information
Christopher Blackwell PhD, APRN, ANP-BC, AGACNP-BC, CNE, FAANP, FAAN
Associate Professor
christopher.blackwell@ucf.edu
Telephone: 407-823-2744
UTWR 453

Is this track available 100% online?
No

Licensure Disclosure

Graduates of this program are eligible to sit for the Adult-Gerontology Acute Care Nurse Practitioner (AGACNP) National Board Certification Examination offered by the American Nurses Credentialing Center or the Acute Care Nurse Practitioner-Adult Gerontology (ACNP-AG) National Board Certification Examination offered by the American Association of Critical Care Nurses. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-Adult-Gerontology-Acute-Care-DNP.pdf.
Track Description

The Doctor of Nursing Practice (DNP) program in the Adult-Gerontology Acute Care Nurse Practitioner Track prepares nurses at the highest level of practice for the current health care environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, leadership, and organizational analysis; and analysis of the DNP project.

The Adult-Gerontology Acute Care Nurse Practitioner Track prepares the advanced practice nurse to care for patients with medically complex stable and unstable acute, critical and chronic illnesses across care settings ranging from hospitals to subacute, ambulatory care, clinic and home care environments at the DNP level, incorporating DNP essentials in practice with a culminating DNP project.

Graduates of this program are eligible to sit for the Adult-Gerontology Acute Care Nurse Practitioner (AGACNP) National Board Certification Examination offered by the American Nurses Credentialing Center or the Acute Care Nurse Practitioner-Adult Gerontology (ACNP-AG) National Board Certification Examination offered by the American Association of Critical Care Nurses. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-Adult-Gerontology-Acute-Care-DNP.pdf.

Program Objectives

The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems and disseminate findings.
- Assume leadership roles in the development of clinical practice models, health policy and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.
- Analyze the social, economic, political, epidemiological and other scientific data to improve individual, aggregate and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and healthcare systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate findings.

The DNP Adult-Gerontology Acute Care Nurse Practitioner track requires a minimum of 76 credit hours beyond the baccalaureate degree. The curriculum includes 39 credits of core courses shared with other DNP tracks, 14 credits of APN core and 23 credits of specialty courses. A total of 1,080 practicum hours are required to earn the DNP. The program prepares nurses at the entry level for advanced practice for the current healthcare system based on a strong scientific foundation for practice; offers flexibility and emphasis on evidence-based practice, leadership and organizational analysis; and provides analytic, critical thinking and diagnostic reasoning skills to examine practice innovations involving completion of the residency project during the clinical residency courses. Details about this program are in the Advanced Practice DNP Handbook.

Total Credit Hours Required: 76 Credit Hours Minimum beyond the Bachelor’s Degree

Track Prerequisites

- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.

*For Students with an RN license and a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu or 407-823-2744 for additional options.

Students with a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice 3 Credit Hours
- NUR 4637 - Public Health Nursing 3 Credit Hours
- NUR 3165 - Nursing Research 3 Credit Hours
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Current certification as an advanced cardiac life support (ACLS) and basic life support (BLS) provider.
- Address the following 3 items in a written essay. Responses to questions should not exceed 1 page, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe how earning a Doctor of Nursing Practice in the track to which you applied will help you achieve your personal and professional goals.
  - Explain those personal and professional experiences that have helped prepare you for doctoral study and your readiness for doctoral study at this time.
  - The final DNP project focuses on implementation of an evidence-based change that impacts healthcare outcomes through direct or indirect care from a systems or population/aggregate focus. Describe an area of interest you believe could be improved through such a project.
- Curriculum Vitae: CV should reflect prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates, this can include accomplishments as a student
- Requires 3 professional recommendations
- An interview with faculty may also be required.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

*For Students with an RN license and a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu or 407-823-2744 for additional options.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with a DNP adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice.

Upon admission to the program student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

**Graduate Application Deadlines**

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<tr>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Lawrence Lipe
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Advanced Practice Core Courses
14 Total Credits

- Complete the following:
  - NGR5003 - Advanced Health Assessment and Diagnostic Reasoning (2)
  - NGR5003L - Advanced Health Assessment and Diagnostic Reasoning Lab (1)
  - NGR5141 - Pathophysiological Bases for Advanced Nursing Practice (3)
  - NGR5638 - Health Promotion (3)
  - NGR6172 - Pharmacology for Advanced Nursing Practice (3)
  - NGR6063L - Advanced Skills for the Management of Illness and Injuries (2)

Specialty Courses: Adult-Gerontology Acute Care Nurse Practitioner
23 Total Credits

- Complete the following:
  - NGR6210 - Adult-Gerontology Acute Care Nurse Practitioner I (3)
  - NGR6230L - Diagnostics and Skills for the Critically Ill (2)
  - NGR6211 - Adult-Gerontology Acute Care Nurse Practitioner II (3)
  - NGR6211L - Adult-Gerontology Acute Care Nurse Practitioner II Clinical (3)
  - NGR6175 - Critical Care Pharmacology (3)
  - NGR6212 - Adult-Gerontology Acute Care Nurse Practitioner III (3)
  - NGR6212L - Adult-Gerontology Acute Care Nurse Practitioner III Clinical (3)
  - NGR6215L - Adult-Gerontology Acute Care Nurse Practitioner Practicum (3)

DNP Core Courses
39 Total Credits

- Complete the following:
  - NGR5800 - Theory for Advanced Practice Nursing (3)
  - NGR6801 - Research Methods (3)
  - NGR6874 - Nursing Environment Management (3)
  - NGR7673 - Epidemiology Principles in Advanced Practice Nursing (3)
  - NGR7793 - Leadership and Economics in Advanced Practice Nursing (3)
  - NGR7827 - Concepts, Measurement, and Data Management (3)
  - NGR7820 - Innovative Technologies in Healthcare (3)
  - NGR7892 - Healthcare Systems and Policy (3)
  - NGR7855C - Evidence-Based Practice Development for DNP (3)
  - NGR7065 - Advanced Clinical Management for Advanced Practice Nursing (3)
  - NGR7911C - Doctoral Project I (3)
  - NGR7912C - Doctoral Project 2 (3)
  - NGR7913 - Doctoral Project 3 (3)

DNP Project
0 Total Credits

- The DNP Project is related to advanced nursing practice and benefits a group, population or community rather than an individual patient. It addresses identified needs and builds on an evidence base. DNP projects may include but are not limited to: Translate research into practice and evaluate outcomes Quality improvement (care processes, continuity of care, patient outcomes) Implement and evaluate evidence-based practice guidelines Analyze policy: develop, implement, evaluate or revise policy Design and use databases to retrieve information for decision making, planning, evaluation Conduct financial analyses to compare care models and potential cost savings, etc. Design and evaluate new models of care Design and evaluate health promotion and disease prevention programs Assess integration of technology in care The theme that links these forms of scholarly experiences is the use of evidence to improve either practice or patient outcomes. Additional examples of DNP projects can be found on the National Organization of Nurse Practitioner Faculty (NONPF) website under Practice Doctorate Resource Center.

Grand Total Credits: 76
Track Details

Progress to Degree

Students are required to maintain a 3.0 grade point average. Students who receive a grade below "B" in any course will be reviewed by the DNP Admissions, Progression and Graduation Committee for continuation in the program. Grades of below "B" are not acceptable in the doctoral program in the College of Nursing. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- A satisfactory DNP Project
- Clinical performance evaluated at a satisfactory level
- A satisfactory public presentation of the DNP Project

Independent Learning

A DNP Project will be completed by all students in the DNP program. A scholarly project, derived from clinical practice, will be developed in depth with faculty supervision.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

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Grad Fellowships

Telephone: 407-823-0127
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https://graduate.ucf.edu/funding/

Nursing Practice DNP - Nursing Practice DNP, Adult-Gerontology Primary Care Nurse Practitioner Track

College

College of Nursing

Department

Department of Nursing Practice

Track Website

http://www.nursing.ucf.edu/admissions/graduate-programs/dnp/index

Track Handbook

Nursing Practice DNP, Adult-Gerontology Primary Care Nurse Practitioner Track

Track Contact Information

Valerie Martinez, DNP, APRN, CPNP-PC
Clinical Assistant Professor
valerie.martinez@ucf.edu
Telephone: 407-823-5024
UTWR 459
Is this track available 100% online?
No

Licensure Disclosure
The DNP Adult/Gerontology Primary Care Nurse Practitioner Track prepares students to care for primary care patients from adolescence through old age in primary care and home care settings, incorporating DNP essentials in practice with a culminating DNP project. Graduates of this program are eligible to sit for the Adult-Gerontology Primary Care Nurse Practitioner (AGPCNP) National Board Certification Examination offered by the American Academy of Nurse Practitioners Certification Board or the American Nurses Credentialing Center. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-Adult-Gerontology-Primary-Care-DNP.pdf.

Track Description
The Doctor of Nursing Practice (DNP) program in the Adult/Gerontology Primary Care Nurse Practitioner Track prepares nurses at the highest level of practice for the current health care environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, leadership, and organizational analysis; and analysis of the DNP project.

Program Objectives
The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems and disseminate findings
- Assume leadership roles in the development of clinical practice models, health policy and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.
- Analyze the social, economic, political, epidemiological and other scientific data to improve individual, aggregate and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and healthcare systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate finding.

The DNP Adult/Gerontology Primary Care Nurse Practitioner track requires a minimum of 72 credit hours beyond the baccalaureate degree. The curriculum includes 39 credits of core courses shared with other DNP tracks, 14 credits of APN core and 19 credits of specialty courses. A total of 1,080 practicum hours are required to earn the DNP. The program prepares nurses at the entry level for advanced practice for the current healthcare system based on a strong scientific foundation for practice; offers flexibility and emphasis on evidence-based practice, leadership and organizational analysis; and provides analytic, critical thinking and diagnostic reasoning skills to examine practice innovations involving completion of the residency project during the clinical residency courses. Details about this program are located in the Advanced Practice DNP Adult-Gerontology DNP Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)

*For Students with an RN license and a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu for additional options.

Students with a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice 3 Credit Hours
- NUR 4637 - Public Health Nursing 3 Credit Hours
- NUR 3165 - Nursing Research 3 Credit Hours
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Official, competitive GRE score taken within the last five years.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Responses to questions should not exceed 1 page, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe how earning a Doctor of Nursing Practice in the track to which you applied will help you achieve your personal and professional goals.
  - Explain those personal and professional experiences that have helped prepare you for doctoral study and your readiness for doctoral study at this time.
  - The final DNP project focuses on implementation of an evidence-based change that impacts healthcare outcomes through direct or indirect care from a systems or population/aggregate focus. Describe an area of interest you believe could be improved through such a project.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations
- An interview with faculty may also be required.

*For Students with an RN license and a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu for additional options.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at 407-823-2744 to schedule an appointment with a DNP adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice.

Upon admission to the program, the student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a “hold” service indicator will be placed to prevent future enrollment and other progression functions.

Graduate Application Deadlines

<table>
<thead>
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<th>Adult-Gerontology Primary Care Nurse Practitioner</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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<td>Domestic Applicants</td>
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<td>International Applicants</td>
<td>Jan 15</td>
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</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.


Graduate School Contact

Lawrence Lipe
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Advanced Practice Core Courses
14 Total Credits

- Complete the following:
  - NGR5003 - Advanced Health Assessment and Diagnostic Reasoning (2)
  - NGR5003L - Advanced Health Assessment and Diagnostic Reasoning Lab (1)
  - NGR5141 - Pathophysiological Bases for Advanced Nursing Practice (3)
  - NGR5638 - Health Promotion (3)
  - NGR6172 - Pharmacology for Advanced Nursing Practice (3)
  - NGR6063L - Advanced Skills for the Management of Illness and Injuries (2)

Specialty Courses: Adult/Gerontology Nurse Practitioner
19 Total Credits

- Complete the following:
  - NGR6201 - Adult I Primary Care (3)
  - NGR6240L - Adult I Clinical for APNs (3)
  - NGR6202L - Adult II Primary Care Clinical (3)
  - NGR6334 - Women's Health for APNs (2)
  - NGR6263 - Gerontologic Care for APNs (3)
  - NGR6263L - Gerontologic Care Clinical for NPs (2)
  - NGR6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum (3)

DNP Core Courses
39 Total Credits

- Complete all of the following
  - The DNP courses serve to enhance the skill and science base of the graduate and strengthen the focus on research utilization. Safety and efficiency in health care systems is addressed and organizational and policy implications are emphasized within the context of care delivery. An emphasis is placed on evidence-based practice, state-of-the-art interventions and information fluency.
  - Complete the following:
    - NGR5800 - Theory for Advanced Practice Nursing (3)
    - NGR6801 - Research Methods (3)
    - NGR6874 - Nursing Environment Management (3)
    - NGR7065 - Advanced Clinical Management for Advanced Practice Nursing (3)
    - NGR7673 - Epidemiology Principles in Advanced Practice Nursing (3)
    - NGR7793 - Leadership and Economics in Advanced Practice Nursing (3)
    - NGR7820 - Innovative Technologies in Healthcare (3)
    - NGR7827 - Concepts, Measurement, and Data Management (3)
    - NGR7855C - Evidence-Based Practice Development for DNP (3)
    - NGR7892 - Healthcare Systems and Policy (3)
    - NGR7911C - Doctoral Project I (3)
    - NGR7912C - Doctoral Project 2 (3)
    - NGR7913 - Doctoral Project 3 (3)

DNP Project
0 Total Credits

- The DNP Project is related to advanced nursing practice and benefits a group, population or community rather than an individual patient. It addresses identified needs and builds on an evidence base. DNP projects may include but are not limited to: Translate research into practice and evaluate outcomes Quality improvement (care processes, continuity of care, patient outcomes) Implement and evaluate evidence-based practice guidelines Analyze policy: develop, implement, evaluate or revise policy Design and use databases to retrieve information for decision making, planning, evaluation Conduct financial analyses to compare care models and potential cost savings, etc. Design and evaluate new models of care Design and evaluate health promotion and disease prevention programs Assess integration of technology in care The theme that links these forms of scholarly experiences is the use of evidence to improve either practice or patient outcomes. Additional examples of DNP projects can be found on the National Organization of Nurse Practitioner Faculty (NONPF) website under Practice Doctorate Resource Center.

Grand Total Credits: 72
Track Details

Progress to Degree

Students are required to maintain a 3.0 grade point average. Students who receive a grade below "B" in any course will be reviewed by the DNP Admissions, Progression and Graduation Committee for continuation in the program. Grades of below B are not acceptable in the doctoral program in the College of Nursing. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- A satisfactory DNP Project
- Clinical performance evaluated at a satisfactory level
- A satisfactory public presentation of the DNP Project

Independent Learning

A DNP Project will be completed by all students in the DNP program. A scholarly project, derived from clinical practice, will be developed in depth with faculty supervision.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding

Nursing Practice DNP - Nursing Practice DNP, Advanced Practice Track

College
College of Nursing

Department
Department of Nursing Practice

Track Website
www.nursing.ucf.edu

Track Handbook
Nursing Practice DNP, Advanced Practice Track

Track Contact Information

Jacqueline LaManna, PhD, APRN, ANP-BC, BC-ADM, CDE
Assistant Professor
jacqueline.lamanna@ucf.edu
Telephone: 407-823-2023
UTWR 471
Is this track available 100% online?
Yes

UCF Online

Please note: Nursing (DNP) - Advanced Practice may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

You may pursue this UCF College of Nursing online program as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.

UCF College of Nursing faculty is authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

Licensure Disclosure

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-DNP-Online-Advanced-Practice.pdf

Track Description

The Doctor of Nursing Practice (DNP) program prepares nurses at the highest level of practice for the current health care environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, leadership, and organizational analysis; and analysis of the DNP Project.

Program Objectives

The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems and disseminate findings.
- Assume leadership roles in the development of clinical practice models, health policy and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.
- Analyze the social, economic, political, epidemiological and other scientific data to improve individual, aggregate and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and healthcare systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate findings.

For the Doctor of Nursing Practice (DNP), total graduate credit must equal or exceed 72 credit hours. Students take 27 credit hours of core courses, 9 hours of electives, and 6 credit hours of a DNP Project. The total clinical hours (including those hours accrued in the MSN degree) will be 1000. The core courses have been carefully constructed to incorporate the AACN competencies for DNP graduates. Details about this program are located in the Nursing DNP Handbook.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Students will take course work that incorporates The Essentials of Doctoral Education for Advanced Nursing Practice [American Association of Colleges of Nursing (AACN), 2006]. The Essentials address the following:

1. Scientific underpinning for practice
2. Organizational and systems leadership for quality improvement and systems thinking
3. Clinical scholarship and analytical methods for evidence-based practice
4. Information systems/technology and patient care technology for the improvement and transformation of health care
5. Health care policy for advocacy in health care
6. Inter-professional collaboration for improving patient and population health outcomes
7. Clinical prevention and population health for improving the nation's health
8. Advanced nursing practice

Track Prerequisites

- MSN degree in an APRN specialty role or a post-MSN certificate (NP, CNS, CRNA, CNM) from an accredited institution.
- Certification as an APRN or ability to obtain it in the first semester of enrollment is required.
- Advanced Practice Registered Nurse (APRN) licensure in the state in which you practice.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- MSN degree in an APRN specialty role or a post-MSN certificate (NP, CNS, CRNA, CNM) from an accredited institution.
- The GRE is not required for admission to this program.
- Certification as an APRN or ability to obtain it in the first semester of enrollment is required.
- Advanced Practice Registered Nurse (APRN) licensure in the state in which you practice.
- Documentation of the number of clinical hours completed during master's program. Acceptable documents are license exam application form or the attached.
- A personal interview may be required with two members of the College of Nursing Doctoral Committee.
- Address the following 3 items in a written essay. Responses to all 3 questions should not exceed 500 words, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe how earning a Doctor of Nursing Practice in the track to which you applied will help you achieve your personal and professional goals.
  - Explain those personal and professional experiences that have helped prepare you for doctoral study and your readiness for doctoral study at this time.
  - The final DNP project focuses on the implementation of an evidence-based change that impacts healthcare outcomes through direct or indirect care from a systems or population/aggregate focus. Describe an area of interest you believe could be improved through such a project.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations.
- Requires 3 professional recommendations
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at (407) 823-2744 to schedule an appointment with a DNP adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice.

Upon admission to the program, student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

Documentation of the number of clinical hours completed during master’s program will need to be submitted. Acceptable documents are license exam application form completion of the Verification of Clinical Hours Form.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Degree Requirements

DNP Core Courses
27 Total Credits

- Complete all of the following
  - The DNP core courses serve to enhance the skill and science base of the graduate and strengthen the focus on evidence-based practice. Safety and efficiency in health care systems is addressed and organizational and policy implications are emphasized within the context of care delivery. An emphasis is placed on evidence-based practice, state-of-the-art interventions and information fluency.
  - Complete the following:
    - NGR6874 - Nursing Environment Management (3)
    - NGR7892 - Healthcare Systems and Policy (3)
    - NGR7673 - Epidemiology Principles in Advanced Practice Nursing (3)
    - NGR7065 - Advanced Clinical Management for Advanced Practice Nursing (3)
    - NGR7855C - Evidence-Based Practice Development for DNP (3)
    - NGR7827 - Concepts, Measurement, and Data Management (3)
    - NGR7793 - Leadership and Economics in Advanced Practice Nursing (3)
    - NGR7820 - Innovative Technologies in Healthcare (3)
    - NGR7779C - Program Development and Management for DNP (3)

Restricted Electives
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  - Restricted Electives

DNP Project
6 Total Credits

- Complete all of the following
  - Complete the following:
    - NGR7911C - Doctoral Project I (3)
    - NGR7912C - Doctoral Project 2 (3)
  - The DNP Project is the product of the culminating or comprehensive experience of an independent project that demonstrates application of advanced clinical and evidence-based practice. The DNP Project is guided and evaluated by an academic committee and is derived from the practice immersion experience (residency). It will serve as a foundation for future scholarly practice. The DNP Project is related to advanced nursing practice and benefits a group, population or community rather than an individual patient. It addresses identified needs and builds on an evidence base. DNP projects may include but are not limited to: Translate research into practice and evaluate outcomes Quality improvement (care processes, continuity of care, patient outcomes) Implement and evaluate evidence-based practice guidelines Analyze policy: develop, implement, evaluate, or revise policy Design and use databases to retrieve information for decision making, planning, evaluation Conduct financial analyses to compare care models and potential cost savings, etc. Design and evaluate new models of care Design and evaluate health promotion and disease prevention programs Assess integration of technology in care The theme that links these forms of scholarly experiences is the use of evidence to improve either practice or patient outcomes. Additional examples of DNP projects can be found on the National Organization of Nurse Practitioner Faculty (NONPF) website under Practice Doctorate Resource Center.

Grand Total Credits: 42
Track Details

Progress to Degree

Students are required to maintain a 3.0 grade point average. Grades below B are not acceptable in the doctoral program in the College of Nursing. Students who receive a grade of below B in any course are subject to dismissal from the DNP program and will be reviewed by the DNP Admissions, Progression and Graduation Committee for continuation in the program. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- A satisfactory DNP Project
- Clinical performance evaluated at a satisfactory level
- A satisfactory public presentation of the DNP Project

Equipment Fee

Full-time students in the Nursing Practice DNP program pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 each semester.

Independent Learning

A DNP Project will be completed by all students in the DNP program. A scholarly project, derived from clinical practice, will be developed in depth with faculty supervision.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Nursing Practice DNP - Nursing Practice DNP, Executive Track

College

College of Nursing

Department

Department of Nursing Systems

Track Website

http://www.nursing.ucf.edu/admissions/graduate-programs/dnp/index

Track Handbook

Nursing Practice DNP, Executive Track
Track Contact Information

Nora Warshawsky PhD, RN, CNE, NEA-BC, FAAN  
Professor  
nora.warshawsky@ucf.edu  
Telephone: 407-823-5468  

Is this track available 100% online?

Yes

UCF Online

Please note: Executive Nursing (DNP) may be completed fully online, with student practice hours completed within their local practice environment. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

You may pursue this UCF College of Nursing online program as long as you will be physically located in a Nurse Licensure Compact (NLC) state for the duration of your education.

UCF College of Nursing faculty is authorized to teach in NLC states. Due to nursing education restrictions imposed by non-NLC states, UCF is unable to offer courses, clinicals, or other educational services regardless of modality within non-NLC states. Should you be physically located within a non-NLC state for more than a vacation or brief visit, regardless of your legal state of residence or the type of license you have, you will be unable to apply or continue your nursing degree program at the UCF College of Nursing. This includes, but is not limited to, students accepting traveling nurse positions in a non-Nurse Licensure Compact state.

Licensure Disclosure

This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-DNP-Online-Executive.pdf.

Track Description

The Executive Track in the Doctor of Nursing Practice (DNP) program is a dynamic and engaging academic curriculum that prepares the nurse executive for the multiple dimensions of administrative responsibilities within varied healthcare environments. The Executive DNP track extends and enhances the knowledge, skill, and performance of healthcare system leaders in a wide variety of clinical and administrative environments.

The DNP Executive Track meets the unique needs and taps the talent of nurse executives through experiential learning and leadership projects in a team-centered environment. It provides enrolled executives the opportunity to interact with prominent healthcare experts who address emergent and challenging issues for nurse leaders and encourages networking with colleagues across local and state healthcare and policy organizations.

Program Objectives

The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems and disseminate findings.
- Assume leadership roles in the development of clinical practice models, health policy, and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.
- Analyze the social, economic, political, epidemiological, and other scientific data to improve individual, aggregate, and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and health care systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate findings.

The Executive Track in the Doctor of Nursing Practice program prepares nurses at the highest level of practice for the current healthcare environment based on a strong scientific foundation for practice; offers flexibility and emphasis on evidence-based practice, leadership, and organizational analysis, and provides analytic skills to examine practice innovations. Details about this program are located in the Executive DNP Handbook. For the Doctor of Nursing Practice (DNP), total graduate credit must equal or exceed 42 credit hours.

Total Credit Hours Required: 42 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

- MSN with a leadership or healthcare systems focus (e.g., Nursing Administration, Healthcare Systems, or Leadership) or Master’s Degree in a related administration field (e.g., MBA, MHA, or MPA) from an accredited institution.
- Applicants with an MSN with a non-leadership focus will be considered for conditional admission. Qualified applicants will be required to complete 9 credit hours, NGR 5720 Organizational Dynamics, NGR 6722 Financial Management and Resource Development, NGR 6723 Nursing Leadership and Management prior to beginning DNP courses. Additional practicum hours will be required.
- RN license the state in which you practice.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- MSN with a leadership or healthcare systems focus (e.g., Nursing Administration, Healthcare Systems, or Leadership) or Master's Degree in a related administration field (e.g., MBA, MHA, or MPA) from an accredited institution.
- The GRE is not required for admission to this program.
- Applicants with an MSN with a non-leadership focus will be considered for conditional admission. Qualified applicants will be required to complete 9 credit hours, NGR 5720 Organizational Dynamics, NGR 6722 Financial Management and Resource Development, NGR 6723 Nursing Leadership and Management prior to beginning DNP courses. Additional practicum hours will be required.
- RN license the state in which you practice.
- Address the following 3 items in a written essay. Responses to all 3 questions should not exceed 500 words, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe how earning a Doctor of Nursing Practice in the track to which you applied will help you achieve your personal and professional goals.
  - Explain those personal and professional experiences that have helped prepare you for doctoral study and your readiness for doctoral study at this time.
  - The final DNP project focuses on the implementation of an evidence-based change that impacts healthcare outcomes through direct or indirect care from a systems or population/aggregate focus. Describe an area of interest you believe could be improved through such a project.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, professional certifications, and activities with professional organizations.
- Requires 3 professional recommendations.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at (407) 823-2744 to schedule an appointment with a DNP adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice.

Documentation of the number of clinical hours completed during master’s program. Acceptable documents are your license exam application form completion of the Verification of Clinical Hours Form

Upon admission to the program, the student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Graduate Application Deadlines

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<th>*Fall Priority</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Grace Guilliams
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
27 Total Credits

- Complete the following:
  - NGR6874 - Nursing Environment Management (3)
  - NGR7673 - Epidemiology Principles in Advanced Practice Nursing (3)
  - NGR7793 - Leadership and Economics in Advanced Practice Nursing (3)
  - NGR7827 - Concepts, Measurement, and Data Management (3)
  - NGR7820 - Innovative Technologies in Healthcare (3)
  - NGR7892 - Healthcare Systems and Policy (3)
  - NGR7855C - Evidence-Based Practice Development for DNP (3)
  - NGR7779C - Program Development and Management for DNP (3)
  - NGR7778L - Advanced Leadership Selective for DNP (3)

Elective
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  - Graduate Elective (chosen from an approved list)

DNP Executive Residency
3 Total Credits

- Complete all of the following
  - The DNP Residency provides an in-depth clinical experience for students. This advanced practice experience provides the opportunity to link policy making with clinical systems, translate research into practice and serve as change agents for health care.
  - Complete the following:
    - NGR7976L - Executive DNP Residency (3)

DNP Professional Practice Immersion
0 Total Credits

- DNP clinical requirements are 1000 hours post-baccalaureate. Immersion hours depend upon record review of hours completed at the master's level. NGR 7942L - DNP Professional Practice Immersion VAR Credit Hours (60-180 practice hours) Can be repeated.

DNP Project
9 Total Credits

- Complete all of the following
  - The DNP Project is the product of the culminating or comprehensive experience of an independent project that demonstrates application of advanced clinical and evidence-based practice. The DNP Project is guided and evaluated by an academic committee. It will serve as a foundation for future scholarly practice. The DNP Project is related to advanced nursing practice and benefits a group, population or community rather than an individual patient. It addresses identified needs and builds on an evidence base.
  - Complete the following:
    - NGR7911C - Doctoral Project 1 (3)
    - NGR7912C - Doctoral Project 2 (3)
    - NGR7913 - Doctoral Project 3 (3)

Grand Total Credits: 42
Track Details

Practicum Experience and Sponsor Requirements and Responsibilities:

Practicum experience hours in nursing leadership must be completed in the graduate educational program in accordance with current accrediting bodies. Additional practicum experience hours may be required to demonstrate executive leadership competence.

Students are required to secure a sponsor within an organization to coach, mentor and guide the student related to their learning activities. Students pursuing a DNP degree in Executive Leadership need guidance in applying their course content to executive nursing practice and planning, implementing, and evaluating an evidence-based practice project.

Practice hours for the Executive DNP are typically accrued by a student working independently in his or her organization related to course objectives or the DNP Project. The sponsor provides guidance to the student on the development of their leadership role. They also provide assistance in gaining access to resources or personnel that are needed to plan, implement, and evaluate their practice improvement project. They work with the student to identify organizational needs and priorities so the student can provide value to the organization.

Independent Learning

A DNP Project will be completed by all students in the DNP program. A scholarly project, derived from systems leadership practice, will be developed in depth with faculty supervision.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Nursing Practice DNP - Nursing Practice DNP, Family Nurse Practitioner Track

College

College of Nursing

Department

Department of Nursing Practice

Track Website

http://www.nursing.ucf.edu/admissions/graduate-programs/dnp/index

Track Handbook

Nursing Practice DNP, Family Nurse Practitioner Track

Track Contact Information

Valerie Martinez, DNP, APRN, CPNP-BC
Clinical Assistant Professor
valerie.martinez@ucf.edu
Telephone: 407-823-5024
UTWR 459
Is this track available 100% online?

No

Licensure Disclosure

Upon completion of this program, students are eligible to sit for the Family Nurse Practitioner (FNP) National Board Certification Examination offered by the American Academy of Nurse Practitioners Certification Board or the American Nurses Credentialing Center. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-Family-Nurse-Practitioner-DNP.pdf.

Track Description

The Doctor of Nursing Practice (DNP) program in the Family Nurse Practitioner Track prepares nurses at the highest level of practice for the current health care environment based on a strong scientific foundation for practice; flexibility and emphasis on evidence-based practice, leadership, and organizational analysis; and analysis of the DNP project.

Program Objectives

The objectives of the DNP program are to prepare graduates to:

- Critically analyze complex clinical situations and practice systems.
- Assume leadership roles in the development of clinical practice models, health policy and standards of care.
- Develop practice models that support diagnostic reasoning skills and clinical judgment through the use of the evidence-based practice.
- Analyze the social, economic, political, epidemiological and other scientific data to improve individual, aggregate and population health.
- Demonstrate information fluency and advanced communication skills to lead quality improvement initiatives to improve patient care and healthcare systems.
- Design, implement, and evaluate comprehensive care models for populations and/or systems and disseminate findings.

The DNP Family Nurse Practitioner Track allows requires a minimum of 75 credit hours beyond the baccalaureate degree. The curriculum includes 39 credit hours of core courses shared with other DNP tracks, 14 credits of APN core and 22 credits of specialty courses. A total of 1,080 practicum hours are required to earn the DNP. The program prepares nurses at the entry level for advanced practice for the current healthcare system based on a strong scientific foundation for practice; offers flexibility and emphasis on evidence-based practice, leadership and organizational analysis; and provides analytic, critical thinking and diagnostic reasoning skills to examine practice innovations involving completion of the residency project during the clinical residency courses. Details about this program are located in the Advanced Practice DNP Family Nurse DNP Handbook.

Total Credit Hours Required: 75 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)

*For Students with an RN and a Bachelor's degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu for additional options.

Students with a bachelor's degree in a discipline other than nursing will be required to take the following courses prior to taking required program courses. Consistent with graduate nursing program policies, courses must be completed with a grade of 'B' or better.

- NUR 3805 - Dimensions of Professional Practice 3 Credit Hours
- NUR 4637 - Public Health Nursing 3 Credit Hours
- NUR 3165 - Nursing Research 3 Credit Hours
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- BSN degree from an accredited institution by program start date.*
- Undergraduate Statistics course.
- Licensure as a registered nurse in the State of Florida by program start date. (Out of state applicants must be eligible for licensure in Florida and must achieve RN licensure to begin clinical courses.)
- Address the following 3 items in a written essay. Responses to questions should not exceed 1 page, double-spaced, 12 point Times New Roman font, and 1-inch margins:
  - Describe how earning a Doctor of Nursing Practice in the track to which you applied will help you achieve your personal and professional goals.
  - Explain those personal and professional experiences that have helped prepare you for doctoral study and your readiness for doctoral study at this time.
  - The final DNP project focuses on implementation of an evidence-based change that impacts healthcare outcomes through direct or indirect care from a systems or population/aggregate focus. Describe an area of interest you believe could be improved through such a project.
- Curriculum Vitae which reflects prior education, recent clinical accomplishments, any recent scholarly work (publications and presentations), awards, additional certifications, and activities with professional organizations. For recent graduates, this can include accomplishments as a student.
- Requires 3 professional recommendations
- An interview with faculty may also be required.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

*For Students with an RN and a Bachelor’s degree in a discipline other than nursing, please contact the College of Nursing Graduate Office at gradnurse@ucf.edu for additional options.

Before submitting your application, it is recommended that applicants call the College of Nursing Graduate Office at (407) 823-2744 to schedule an appointment with a DNP adviser to discuss your goals for doctoral study. It is advantageous to discuss the program before writing the required essay because the essay must address your goals for doctoral-level preparation for advanced nursing practice.

Upon admission to the program, the student will be required to complete FDLE/FBI fingerprinting and certified background checks, and health screening. Students must be able to meet clinical partner background requirements to continue in the program.

The College of Nursing uses a student information management system, LEAP*RN (Project Concert). This database houses information regarding plans of study, clinical placements, clinical hours, logs, and evaluation data to assist in maintaining standards required for CCNE accreditation, facilitate student progression, and enhance clinical tracking. Students will need to access LEAP*RN for clinical course requirements, course evaluations, and portfolios. Upon graduation, students will continue to have no-cost access to their information. All students will be responsible for a one-time subscription of $150 per degree program payable at https://secure.projectconcert.com/ucf and due prior to registering for first semester courses. If students register for courses prior to paying the subscription, a "hold" service indicator will be placed to prevent future enrollment and other progression functions.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Lawrence Lipe
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Advanced Practice Core Courses
14 Total Credits

- Complete the following:
  - NGR5003 - Advanced Health Assessment and Diagnostic Reasoning (2)
  - NGR5003L - Advanced Health Assessment and Diagnostic Reasoning Lab (1)
  - NGR5141 - Pathophysiological Bases for Advanced Nursing Practice (3)
  - NGR5638 - Health Promotion (3)
  - NGR6063L - Advanced Skills for the Management of Illness and Injuries (2)
  - NGR6172 - Pharmacology for Advanced Nursing Practice (3)

Specialty Courses: Family Nurse Practitioner
22 Total Credits

- Complete the following:
  - NGR6201 - Adult I Primary Care (3)
  - NGR6240L - Adult I Clinical for APNs (3)
  - NGR6263 - Gerontologic Care for APNs (3)
  - NGR6263L - Gerontologic Care Clinical for NPs (2)
  - NGR6305 - Pediatric Primary Care (3)
  - NGR6305L - Pediatric Primary Care Clinical (2)
  - NGR6334 - Women's Health for APNs (2)
  - NGR6342L - Women's Health for APNs Clinical (1)
  - NGR6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum (3)

DNP Core Courses
39 Total Credits

- Complete all of the following
  - The DNP courses serve to enhance the skill and science base of the graduate and strengthen the focus on research utilization. Safety and efficiency in health care systems is addressed and organizational and policy implications are emphasized within the context of care delivery. An emphasis is placed on evidence-based practice, state-of-the-art interventions and information fluency.
  - Complete the following:
    - NGR5800 - Theory for Advanced Practice Nursing (3)
    - NGR6801 - Research Methods (3)
    - NGR6874 - Nursing Environment Management (3)
    - NGR7065 - Advanced Clinical Management for Advanced Practice Nursing (3)
    - NGR7673 - Epidemiology Principles in Advanced Practice Nursing (3)
    - NGR7793 - Leadership and Economics in Advanced Practice Nursing (3)
    - NGR7820 - Innovative Technologies in Healthcare (3)
    - NGR7827 - Concepts, Measurement, and Data Management (3)
    - NGR7855C - Evidence-Based Practice Development for DNP (3)
    - NGR7892 - Healthcare Systems and Policy (3)
    - NGR7911C - Doctoral Project 1 (3)
    - NGR7912C - Doctoral Project 2 (3)
    - NGR7913 - Doctoral Project 3 (3)

DNP Project
0 Total Credits

- The DNP Project is related to advanced nursing practice and benefits a group, population or community rather than an individual patient. It addresses identified needs and builds on an evidence base. DNP projects may include but are not limited to: Translate research into practice and evaluate outcomes, Quality improvement (care processes, continuity of care, patient outcomes) Implement and evaluate evidence-based practice guidelines, Analyze policy: develop, implement, evaluate or revise the policy Design and use databases to retrieve information for decision making, planning, evaluation Conduct financial analyses to compare care models and potential cost savings, etc. Design and evaluate new models of care, Design and evaluate health promotion and disease prevention programs, Assess integration of technology in care. The theme that links these forms of scholarly experiences is the use of evidence to improve either practice or patient outcomes. Additional examples of DNP projects can be found on the National Organization of Nurse Practitioner Faculty (NONPF) website under Practice Doctorate Resource Center.

Grand Total Credits: 75
Track Details

Progress to Degree

Students are required to maintain a 3.0 grade point average. Students who receive a grade of below "B" in any course will be reviewed by the DNP Admissions, Progression and Graduation Committee for continuation in the program. Grades of below B are not acceptable in the doctoral program in the College of Nursing. Students who do not maintain a 3.0 GPA will be put on probation or dismissed from the program.

Graduation Requirements

- All course work completed with a minimum grade of "B"
- A satisfactory DNP Project
- Clinical performance evaluated at a satisfactory level
- A satisfactory public presentation of the DNP Project

Independent Learning

A DNP Project will be completed by all students in the DNP program. A scholarly project, derived from clinical practice, will be developed in depth with faculty supervision.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

College of Optics and Photonics

Applied Photonics Graduate Certificate

College

College of Optics and Photonics

Department

College of Optics and Photonics

Program Website

https://www.creol.ucf.edu/academics/graduate/

Program Contact Information

Lawrence Lipe

gradprog@creol.ucf.edu
Telephone: 407-823-6986
CREOL Room 208

Is this program available 100% online?

Yes
Please note: Applied Photonics Graduate Certificate may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Applied Photonics Graduate Certificate is designed to provide working professionals with knowledge and training in applied photonics to enhance their career opportunities and meet their current responsibilities.

The certificate program compliments their technical backgrounds in science and engineering with the basic principles and applications of photonics engineering in fiber communication systems, lasers, medicine, and aerospace and defense photonics.

Application Requirements

Admission is open to those with a bachelor’s degree in electrical engineering, physics, or a closely related discipline from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc only.

Applications are accepted for the fall and spring terms only.

Graduate Application Deadlines

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Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
Degree Requirements

Required Courses
6 Total Credits

- Take the following:
  - OSE5414 - Fundamentals of Optoelectronic Devices (3)
  - OSE6111 - Optical Wave Propagation (3)

Elective Courses
6 Total Credits

- Complete at least 2 of the following:
  - OSE5525 - Laser Engineering (3)
  - OSE6421 - Integrated Photonics (3)
  - OSE6474 - Fundamentals of Optical Fiber Communications (3)
  - OSE6536 - Semiconductor Lasers (3)

Grand Total Credits: 12

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Optical Imaging Systems Graduate Certificate

College
College of Optics and Photonics

Department
College of Optics and Photonics

Program Website
https://www.creol.ucf.edu/academics/graduate/

Program Contact Information

Lawrence Lipe
gradprog@creol.ucf.edu
Telephone: 407-823-6986
CREOL Room 208

Is this program available 100% online?
Yes

UCF Online

Please note: Optical Imaging Systems Graduate Certificate may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Optical Imaging Systems Graduate Certificate is designed to provide working professionals with knowledge and training in optical imaging systems to enhance their career opportunities and meet their current responsibilities.

The certificate program compliments their technical backgrounds in science and engineering with the basic principles and applications of optical engineering in imaging, electro-optic systems, radiometry, and optical system design.
Application Requirements

Admission is open to those with a bachelor's degree in electrical engineering, physics, or a closely related discipline from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition, applicants to this certificate must provide:

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc only.

Applications are accepted for the fall and spring terms only.

Graduate Application Deadlines

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gradadmissions@ucf.edu
Telephone: 407-823-2766
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Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
6 Total Credits

- Complete the following:
  - OSE5115 - Interference and Diffraction (3)
  - OSE6211 - Imaging and Optical Systems (3)

Elective Courses
6 Total Credits

- Complete at least 2 of the following:
  - OSE5203 - Geometrical Optics (3)
  - OSE5525 - Laser Engineering (3)
  - OSE6242 - Infrared Systems (3)
  - OSE6265 - Optical Systems Design (3)

Grand Total Credits: 12

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Optics and Photonics MS

2021-2022 Graduate Catalog
College
College of Optics and Photonics

Department
College of Optics and Photonics

Program Website
http://www.creol.ucf.edu/

Program Handbook
Optics MS

Program Contact Information
Lawrence Lipe
gradprog@creol.ucf.edu
Telephone: 407-823-6986
CREOL Room 208

Is this program available 100% online?
Yes

UCF Online
Please note: Optics and Photonics MS may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description
The Master of Science in Optics and Photonics program is intended for students with a bachelor's degree in optics, electrical engineering, physics, or closely related fields. The program is interdisciplinary and combines optical science and engineering.

The College of Optics and Photonics offers an interdisciplinary graduate program in optical science and engineering leading to a Master of Science in Optics and Photonics. The college has grown rapidly and now has 55 faculty members and faculty with joint appointments, 41 research scientists and 148 graduate students with research activities covering all aspects of optics, photonics, and lasers. Research expenditures are over $10 million annually, with over 20 percent of the funding coming from industrial partners, illustrating the effectiveness of the commitment to partnerships that is a foundational value of the COP.

Research activities cover all aspects of optics, photonics, and lasers, and the Center for Research and Education in Optics and Lasers (CREOL), the Florida Photonics Center of Excellence (FPCE), and the Townes Laser Institute (TLI) are integral parts of the College. Current research areas include: linear and nonlinear guided-wave optics and devices, high speed photonic telecommunications, fiber optic fabrication, fiber optic communications, solid state laser development, nonlinear optics, laser-induced damage, quantum-well optoelectronics, quantum optics, photonic information processing, infrared systems, optical diagnostics, optical system design, image analysis, virtual reality, medical imaging, diffractive optics, optical crystal growth and characterization, high intensity lasers, X-ray optics, EUV sources, optical glasses, laser materials processing, free-electron lasers, and light matter interaction.

The MS program is intended for students with a bachelor's degree in optics, electrical engineering, physics, or closely related fields. The program's mission is to:

- Provide the highest-quality education in optical science and engineering
- Conduct scholarly, fundamental, and applied research
- Aid in the development of Florida's and the nation's technology-based industries

This degree has 3 tracks: International Track, Optics Track and Photonics Track. Please scroll to the bottom of this page for further details on these Tracks.

Program Prerequisites
A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.
- The GRE is not required for admission to this program.
- Personal Statement: a brief 1 page or less statement about educational, research, and long-term professional career objectives.
- Three letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Jaylin Hudgen
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Core Courses
9 Total Credits

- Complete all of the following
  - Take the following:
    - OSE5115 - Interference and Diffraction (3)
    - OSE6111 - Optical Wave Propagation (3)
    - OSE5525 - Laser Engineering (3)
  - OSE 6536 Semiconductor Lasers may be used as a substitute for OSE 5525 Laser Engineering

Elective Courses
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  A listing and description of courses offered by the College of Optics and Photonics is found in the "Courses" section. Other courses with significant optics content may be accepted towards the Optics (OSE) course work requirement, upon approval by the Associate Dean.

Comprehensive Examination
0 Total Credits

- An oral master's comprehensive examination, based on the core courses (OSE 5115 Interference, Diffraction and Coherence, OSE 6111 Optical Wave Propagation, and OSE 5525 Laser Engineering) must be passed as a graduation requirement for the MS degree in Optics and Photonics. Students will be required to take this exam within one semester after completing the core courses. The exam may be taken twice. After failing on the second attempt, the student will be required to re-take the courses covering the areas in which the examination committee determined the student to be deficient. The retaken courses must be passed with a minimum grade of B+ in order for the student to graduate. This Comprehensive Examination requirement may be satisfied by passing the Optics and Photonics PhD Qualifying exam.

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following:
  - Thesis
    - Complete all of the following
      - Earn at least 6 credits from the following:
        - OSE6971 - Special Topics (1 - 99)
        - The thesis option requires at least 6 credit hours of thesis research. Independent study and directed research credit hours are not allowed toward the degree requirements. The student must prepare an approved program of study and form a thesis committee upon completion of nine credit hours. The MS thesis committee consists of three members, with at least two regular graduate faculty members from the College of Optics and Photonics. Students are required to write a thesis and pass an oral exam based primarily on the topics of the thesis and course work.
  - Nonthesis
    - Complete all of the following
      - Earn at least 6 credits from the following types of courses:
        A listing and description of courses offered by the College of Optics and Photonics is found in the "Courses" section.
        - The nonthesis option requires an additional 6 credit hours of electives. Up to 3 credit hours of directed research (OSE 6918) or research report (OSE 6909) may be included as electives with prior approval of the College of Optics and Photonics although they are not counted toward the required 27 credit hours of formal coursework. Students must prepare an approved plan of study upon completion of nine credit hours. The research report is a written report on a subject based on research completed under the guidance of a faculty advisor who is a member of the graduate faculty in the College of Optics and Photonics. The subject matter will be determined by advisor and should be on some aspect of experimental, theoretical, or literature research in the area of optics and photonics. Normally the research and report should be completed within one semester. The written report should contain between 5,000 and 10,000 words and should roughly follow the format of a scientific journal paper. The report will be evaluated by a committee consisting of the advisor and two other faculty members. The student will be expected to present a brief oral presentation of the work to the committee, not less than 5 business days after submitting the written report to the committee and prior to the last day of classes in the semester. The report will be graded on a satisfactory/unsatisfactory basis by the advisor, based on the input from the committee.

Independent Learning
0 Total Credits

- Nonthesis students engage in directed research or research report. Thesis students enroll in 6 hours of thesis credits during the completion of their research study.

Grand Total Credits: 30
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Optics and Photonics MS - Optics and Photonics MS, International Track

College
College of Optics and Photonics

Department
College of Optics and Photonics

Track Website
http://www.creol.ucf.edu/

Track Contact Information

Lawrence Lipe
Ashley Rivera Mercado
gradprog@creol.ucf.edu
Telephone: 407-823-6986 or 407-823-4726
CREOL Room 208

Is this track available 100% online?

No

Track Description

NOTE: The Optics and Photonics MS program is not currently accepting applications for the International Track. For additional information, please contact 407-823-6986 or gradprog@creol.ucf.edu.

The International track in the Optics and Photonics MS program is intended for those students involved in an international exchange program with particular programs in other countries as approved by the university and the College of Optics and Photonics. The requirements for this track are the same as the general MS program.

Track Prerequisites

A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.
- Personal Statement: a brief, 1-2 page statement about educational, research, and long-term professional career objectives.
- Three letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

Graduate School Contact

Jaylin Hudgen
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Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses

24 Total Credits

- Complete all of the following
  Core Courses
  - Complete all of the following
    - Take the following:
      - OSE5115 - Interference and Diffraction (3)
      - OSE6111 - Optical Wave Propagation (3)
      - OSE5525 - Laser Engineering (3)
    - The foundation courses are strongly recommended for all students unless they can demonstrate knowledge sufficient to waive the course in which case they will take an additional elective.
  Research Methods/Laboratory
  - Complete all of the following
    - Earn at least 6 credits from the following:
      - OSE6455C - Photonics Laboratory (3)
      - OSE6526C - Laser Engineering Laboratory (3)
      - OSE6615L - Optoelectronic Device Fabrication Laboratory (3)
    At least 6 credit hours of approved Optics and related science/engineering research methods/laboratory courses are required from the list below. At least one must be in Optics (OSE). One required laboratory may be waived if the student can demonstrate an equivalent hands-on proficiency in that laboratory specialization. These research methods/laboratory courses count toward the formal graduate course work requirement. Other graduate-related science and engineering methodology labs may be taken with approval by the College of Optics and Photonics.
  Elective Courses
  - Earn at least 9 credits from the following types of courses:
    All students are required to take a minimum of 9 credit hours of electives. Other courses with significant optics content may be accepted toward the Optics (OSE) course work requirement, upon approval by the Associate Dean. A listing and description of courses offered by the College of Optics and Photonics is found in the "Courses" section

Thesis/Nonthesis Option

6 Total Credits

- Complete 1 of the following
  Thesis
  - Complete all of the following
    - Earn at least 6 credits from the following:
      - OSE6971 - Special Topics (1 - 99)
    - The thesis option requires at least 6 credit hours of thesis research. Independent study and directed research credit hours are not allowed toward the degree requirements. The student must prepare an approved program of study and form a thesis committee upon completion of nine credit hours. The MS thesis committee consists of three members, with at least two regular graduate faculty members from the College of Optics and Photonics. Students are required to write a thesis and pass an oral exam based primarily on the topics of the thesis and course work.
  Nonthesis
  - Earn at least 6 credits from the following types of courses:
    The nonthesis option requires an additional 6 credit hours of electives. Up to 3 credit hours of directed research (OSE 6918) or research report (OSE 6909) may be included with prior approval of the College of Optics and Photonics although they are not counted toward the formal course work requirement. Students must prepare an approved program of study upon completion of nine credit hours. Students are required to pass a final oral comprehensive examination based primarily on the subject matter of the courses taken. The purpose of the exam is for the student to demonstrate his or her basic knowledge of the fundamentals of optics and photonics. The nonthesis master's requires a minimum of two methods/laboratory courses as described above. These laboratory courses involve a substantial amount of independent learning on the part of the student. For example, laboratory reports must include sections on the theoretical and historical background behind the phenomena explored in laboratory experiments, and students are expected to obtain this background information on their own by researching the scientific literature. One required Optics laboratory may be waived if the student can demonstrate an equivalent hands-on proficiency in that laboratory specialization. These methodology/laboratory courses count toward the formal course work requirement.

Grand Total Credits: 30
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Optics and Photonics MS - Optics and Photonics MS, Optics Track

College

College of Optics and Photonics

Department

College of Optics and Photonics

Track Website
http://www.creol.ucf.edu/

Track Handbook
Optics and Photonics MS, Optics Track

Track Contact Information

Lawrence Lipe
gradprog@creol.ucf.edu
Telephone: 407-823-6986
CREOL Room 208

Is this track available 100% online?
Yes

UCF Online

Please note: Optics and Photonics MS may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Track Description

The Optics Track in the Master of Science in Optics and Photonics program is intended for students with a bachelor's degree in optics, electrical engineering, physics, or closely related fields. The program is interdisciplinary and combines optical science and engineering.
Track Prerequisites
A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.
- The GRE is not required for admission to this program.
- Personal Statement: a brief, 1 page or less statement about educational, research, and long-term professional career objectives.
- Three letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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Application Deadlines Notes
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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gradadmissions@ucf.edu
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Graduate Admissions

Mailing Address
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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Core Courses
18 Total Credits

- Complete all of the following
  - Take the following:
    - OSE5115 - Interference and Diffraction (3)
    - OSE5203 - Geometrical Optics (3)
    - OSE6111 - Optical Wave Propagation (3)
    - OSE6211 - Imaging and Optical Systems (3)
    - OSE6265 - Optical Systems Design (3)
    - OSE5525 - Laser Engineering (3)
- OSE 6536 Semiconductor Lasers may be used as a substitute for OSE 5525 Laser Engineering

Elective Courses
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  All students are required to take a minimum of 6 credit hours of electives. Other courses with significant optics content may be accepted toward the Optics (OSE) course work requirement, upon approval by the Associate Dean. A listing and description of courses offered by the College of Optics and Photonics is found in the "Courses" section.

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis
  - Nonthesis

  The thesis option requires at least 6 credit hours of thesis research. Independent study and directed research credit hours are not allowed toward the degree requirements. The student must prepare an approved plan of study and form a thesis committee upon completion of 9 credit hours. The MS thesis committee consists of three members, with at least two regular graduate faculty members from the College of Optics and Photonics. Students are required to write a thesis and pass an oral exam based primarily on the topics of the thesis and course work.

  The nonthesis option requires an additional 6 credit hours of courses or electives. Up to 3 credit hours of Research Report (OSE 6909) may be included. For students in a nonthesis option, a Research Report may be completed in the last term of study. The Optics or Photonics master's tracks require a research report in the nonthesis option, but this is optional in the general MS degree. The research report is a written report on a subject based on research completed under the guidance of a faculty adviser who is a member of the graduate faculty in the College of Optics and Photonics. The subject matter will be determined by the adviser and should be on some aspect of experimental, theoretical, or literature research in the area of optics and photonics. Normally, the research and report should be completed within one semester. The written report should contain between 5,000 and 10,000 words and should roughly follow the format of a scientific journal paper. The report will be evaluated by a committee consisting of the adviser and two other faculty members. The student will be expected to present a brief oral presentation of the work to the committee, not less than 5 business days after submitting the written report to the committee and prior to the last day of classes in the semester. The report will be graded on a satisfactory/unsatisfactory basis by the adviser, based on the input from the committee. Students must select an adviser from the College of Optics and Photonics faculty to serve on their Research Report. Students must prepare an approved plan of study upon completion of 9 credit hours. Students are required to pass a final oral comprehensive examination based primarily on the subject matter of the courses taken. The purpose of the exam is for the student to demonstrate his or her basic knowledge of the fundamentals of optics and photonics.

Comprehensive Examination
0 Total Credits

- An oral master's comprehensive examination, based on the core courses (OSE 5115 Interference, Diffraction and Coherence, OSE 6111 Optical Wave Propagation, and OSE 5525 Laser Engineering or OSE 6536 Semiconductor Lasers may be used as a substitute for OSE 5525 Laser Engineering) must be passed as a graduation requirement for the MS degree in Optics and Photonics. Students will be required to take this exam within one semester after completing the core courses. The exam may be taken twice. After failing on the second attempt, the student will be required to re-take the courses covering the areas in which the examination committee determined the student to be deficient. The retaken courses must be passed with a minimum grade of B+ in order for the student to graduate. This Comprehensive Examination requirement may be satisfied by passing the Optics and Photonics Ph.D. Qualifying exam.

Grand Total Credits: 30
**Track Details**

Up to 9 credit hours of appropriate graduate courses from accredited universities recognized by UCF may be transferred with approval from the College of Optics and Photonics. Only courses with grades of “B” or better can be transferred.

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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http://finaid.ucf.edu

**Fellowship Information**

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**Grad Fellowships**

Telephone: 407-823-0127  
gradfellowship@ucf.edu  
https://funding.graduate.ucf.edu

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**Optics and Photonics MS - Optics and Photonics MS, Photonics Track**

**College**

College of Optics and Photonics

**Department**

College of Optics and Photonics

**Track Website**

http://www.creol.ucf.edu/

**Track Handbook**

Optics and Photonics MS, Photonics Track

**Track Contact Information**

Lawrence Lipe  
gradprog@creol.ucf.edu  
Telephone: 407-823-6986  
CREOL Room 208

**Is this track available 100% online?**

Yes

**UCF Online**

Please note: Optics and Photonics MS may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

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UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.
**Track Description**

The Photonics Track in the Optics and Photonics MS program is intended for students with a bachelor's degree in optics, electrical engineering, physics, or closely related fields. The program is interdisciplinary and combines optical science and engineering.

**Track Prerequisites**

A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Optics, Electrical Engineering, Physics, or closely related fields.
- The GRE is not required for admission to this program.
- Personal Statement: a brief, 1 page or less statement about educational, research, and long-term professional career objectives.
- Three letters of recommendation.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a credential evaluation showing an equivalent bachelor's degree in the U.S. A course-by-course evaluation must be provided, with a GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

Jaylin Hudgen  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
**Degree Requirements**

**Required Core Courses**

18 Total Credits

- Complete all of the following
  - Take the following:
    - OSE5414 - Fundamentals of Optoelectronic Devices (3)
    - OSE5115 - Interference and Diffraction (3)
    - OSE6111 - Optical Wave Propagation (3)
    - OSE5525 - Laser Engineering (3)
    - OSE6421 - Integrated Photonics (3)
    - OSE6474 - Fundamentals Optica Fiber Communications (3)
  - OSE 6536 Semiconductor Lasers maybe used as a substitute for OSE 5525 Laser Engineering

**Elective Courses**

6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - All students are required to take a minimum of 6 credit hours of electives. Other courses with significant optics content may be accepted toward the Optics (OSE) coursework requirement, upon approval by the Associate Dean. A listing and description of courses offered by the College of Optics and Photonics is found in the "Courses" section.

**Thesis/Nonthesis Option**

6 Total Credits

- Complete 1 of the following
  - Thesis
    - Complete all of the following
      - Earn at least 6 credits from the following:
        - OSE6971 - Special Topics (1 - 99)
      - The thesis option requires at least 6 credit hours of thesis research. Independent study and directed research credit hours are not allowed toward the degree requirements. The student must prepare an approved plan of study and form a thesis committee upon completion of 9 credit hours. The MS thesis committee consists of three members, with at least two regular graduate faculty members from the College of Optics and Photonics. Students are required to write a thesis and pass an oral exam based primarily on the topics of the thesis and course work.
  - Nonthesis
    - Earn at least 6 credits from the following types of courses:
      - The nonthesis option requires an additional 6 credit hours of courses or electives. Up to 3 credit hours of Research Report (OSE 6909) may be included. For students in a non-thesis option, a Research Report may be completed in the last term of study. The Optics or Photonics Masters tracks require a research report in the non-thesis option, but this is optional in the general MS degree. The research report is a written report on a subject based on research completed under the guidance of a faculty advisor who is a member of the graduate faculty in the College of Optics and Photonics. The subject matter will be determined by advisor and should be on some aspect of experimental, theoretical, or literature research in the area of optics and photonics. Normally the research and report should be completed within one semester. The written report should contain between 5,000 and 10,000 words and should roughly follow the format of a scientific journal paper. The report will be evaluated by a committee consisting of the advisor and two other faculty members. The student will be expected to present a brief oral presentation of the work to the committee, not less than 5 business days after submitting the written report to the committee and prior to the last day of classes in the semester. The report will be graded on a satisfactory/unsatisfactory basis by the advisor, based on the input from the committee. Students must select an adviser from the College of Optics and Photonics Faculty to serve on their Research Report. Students must prepare an approved plan of study upon completion of 9 credit hours. Students are required to pass a final oral comprehensive examination based primarily on the subject matter of the courses taken. The purpose of the exam is for the student to demonstrate his or her basic knowledge of the fundamentals of optics and photonics.

**Comprehensive Examination**

0 Total Credits

- An oral master’s comprehensive examination, based on the core courses (OSE 5115 Interference, Diffraction and Coherence, OSE 6111 Optical Wave Propagation, and OSE 5525 Laser Engineering or OSE 6536 Semiconductor Lasers may be used as a substitute for OSE 5525 Laser Engineering) must be passed as a graduation requirement for the MS degree in Optics and Photonics. Students will be required to take this exam within one semester after completing the core courses. The exam may be taken twice. After failing on the second attempt, the student will be required to re-take the courses covering the areas in which the examination committee determined the student to be deficient. The retaken courses must be passed with a minimum grade of B+ in order for the student to graduate. This Comprehensive Examination requirement may be satisfied by passing the Optics and Photonics Ph.D. Qualifying exam.

Grand Total Credits: **30**
Track Details
Up to 9 credit hours of appropriate graduate courses from accredited universities recognized by UCF may be transferred with approval from the College of Optics and Photonics. Only courses with grades of "B" or better can be transferred.

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
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Fellowship Information
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Optics and Photonics PhD
College
College of Optics and Photonics

Department
College of Optics and Photonics

Program Website
http://www.creol.ucf.edu/

Program Handbook
Optics and Photonics PhD

Program Contact Information
Lawrence Lipe
gradprog@creol.ucf.edu
Telephone: 407-823-6986
CREOL Room 208

Is this program available 100% online?
No
Program Description

The Optics and Photonics PhD program provides the highest-quality education in optical science and engineering, allowing students to conduct scholarly, fundamental, and applied research, while aiding in the development of Florida's and the nation's technology-based industries.

Research activities cover all aspects of optics, photonics, and lasers, and the Center for Research and Education in Optics and Lasers (CREOL), the Florida Photonics Center of Excellence (FPCE), and the Townes Laser Institute (TLI) are integral parts of the College of Optics and Photonics. Current research areas include: linear and nonlinear guided-wave optics and devices, high speed photonic telecommunications, fiber optic fabrication, fiber optic communications, solid state laser development, nonlinear optics, laser-induced damage, quantum-well optoelectronics, quantum optics, photonic information processing, infrared systems, optical diagnostics, optical system design, image analysis, virtual reality, medical imaging, diffractive optics, optical crystal growth and characterization, high intensity lasers, x-ray optics, EUV sources, optical glasses, laser materials processing, free-electron lasers, and light matter interaction.

The College of Optics and Photonics (COP) was the first program to be offered the distinction of a college devoted to Optics in the United States. The College of Optics and Photonics has grown rapidly and now has 55 faculty members and faculty with joint appointments, 41 research scientists and 148 graduate students with research activities covering all aspects of optics, photonics, and lasers. Research expenditures are over $10 million annually, with more than 20 percent of the funding coming from industrial partners, illustrating the effectiveness of the commitment to partnerships that is a foundational value of the COP.

Program Prerequisites

Bachelor's or master's degree in Optics, Electrical Engineering, Physics or closely related discipline.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's or master's degree in Optics, Electrical Engineering, Physics or closely related discipline.
- The GRE is not required for admission to this program.
- Three letters of recommendation
- The College of Optics and Photonics requires a Statement of Purpose.
  - A brief, 1-2 page statement about educational, research, and long-term professional career objectives.
- Résumé
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students with degrees in related fields may be required to take undergraduate articulation courses determined by the program director on a case-by-case basis.

Graduate Application Deadlines

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<th>Fall</th>
<th>Spring</th>
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Application Deadlines Notes

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**Graduate School Contact**

**Jaylin Hudgen**
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

**Mailing Address**
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

**Degree Requirements**

Required Courses
21 Total Credits

- Complete all of the following
  - Core Courses
    - Complete all of the following:
      - Complete the following:
        - OSE6111 - Optical Wave Propagation (3)
        - OSE5115 - Interference and Diffraction (3)
        - OSE5312 - Light Matter Interaction (3)
        - OSE6211 - Imaging and Optical Systems (3)
        - OSE6474 - Fundamentals Optical Fiber Communications (3)
        - OSE5525 - Laser Engineering (3)
      - OSE 6536 Semiconductor Lasers may be used as a substitute for OSE 5525 Laser Engineering
    - Research Methods/ Laboratory Courses
    - Complete all of the following:
      - Complete at least 1 of the following:
        - OSE6234C - Applied Optics Laboratory (3)
        - OSE6455C - Photonics Laboratory (3)
        - OSE6526C - Laser Engineering Laboratory (3)
        - OSE6615L - Optoelectronic Device Fabrication Laboratory (3)
      - Other graduate science and engineering labs may be taken with college approval.

Elective Courses
36 Total Credits

- Complete all of the following
  - Restricted Electives
  - Earn at least 9 credits from the following types of courses:
    - Students will need to complete an additional 9 credit hours to meet the 30 hours of formal Optics (OSE) course work required. An additional three hours of optics coursework will be required if the student waived out of the research methods/laboratory courses above, or if the laboratory courses taken is not an OSE prefix. Other courses with significant optics content may be accepted toward the Optics (OSE) coursework requirement, upon approval by the Associate Dean. A listing and description of courses offered by the College of Optics and Photonics is found in the "Courses" section.
  - Unrestricted Electives
  - Earn at least 27 credits from the following types of courses:
    - A combination of formal course work and research hours comprise the remaining unrestricted hours. At least 9 of these hours must be formal course work, which may be graduate optics, science or engineering courses. In addition to the 9 hours, 18 credits may be regular formal course work, doctoral research hours, independent study, or doctoral dissertation hours. The independent study hours are limited to a maximum of 3 credit hours. Any courses outside of the graduate optics, science or engineering disciplines must be approved by the college associate dean.

Dissertation
15 Total Credits

- Earn at least 15 credits from the following:
  - OSE7980 - Dissertation (1 - 99)

Qualifying Examination
0 Total Credits

2021-2022 Graduate Catalog
Before students are eligible to take the candidacy examination, they must pass a written qualifying examination, which for full-time students is normally taken at the end of the first year of graduate study. The purpose of the qualifying exam is for the student to demonstrate mastery of the fundamentals of optics and photonics. The exam is administered by the doctoral qualifying examination committee, which consists of several graduate faculty members representing the appropriate disciplines, appointed by the director or designee. The committee's duties include the preparation and grading of the examination material, and it may solicit input from other interested faculty. The exam is a closed book written exam in the general areas of electromagnetic foundations of optics, interference, diffraction, coherence, linear systems imaging, and light matter interaction. Students who do not pass the qualifying examination in two attempts will not continue in the program.

Candidacy Examination
0 Total Credits

- Students are required to successfully complete the candidacy examination before admission to full doctoral status. The purpose of the candidacy exam is for the student to demonstrate his or her readiness for the PhD program through preliminary research work in the chosen field of study. The candidacy exam is comprised of written and oral portions. The exam is administered by the members of the student's dissertation advisory committee who are full faculty members of the College of Optics and Photonics. External committee members of the dissertation advisory committee are not appointed until after the student has passed the candidacy exam. The exam is normally taken near the completion of required course work. Students must pass the candidacy exam before registering for doctoral dissertation hours (OSE 7980).

Admission to Candidacy
0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours: Completion of most course work, except for dissertation hours. Successful completion of the candidacy examination. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study.

Dissertation Proposal and Defense
0 Total Credits

- Approximately one year after passing the general candidacy examination, and after the student has begun research, the student will write a dissertation proposal and present it to their dissertation advisory committee for its approval. The proposal must include the research performed to date and the research planned to complete the dissertation. The committee, which consists of three graduate faculty members from the College of Optics and Photonics, must be approved by the director or designee and will meet annually to review the student's progress. The dissertation advisory committee also administers the dissertation oral defense examination.

Independent Learning
0 Total Credits

- The dissertation satisfies the independent learning experience.

Grand Total Credits: 72

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

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College of Sciences

Anthropology MA
Is this program available 100% online?
No

Program Description
The Department of Anthropology offers a graduate program leading to the Master of Arts degree in Anthropology. The course work in this program is conceptually three-field, with faculty strengths in archaeology, cultural anthropology, and biological anthropology. The department follows an apprenticeship model, and thus the MA student works directly under the supervision of their graduate adviser. Students are informed of who their graduate adviser is when they are admitted to the program. Visit the Faculty Page for the UCF Department of Anthropology for more information about our faculty. Students can choose to pursue a thesis or non-thesis option. Students in the program are prepared to enter doctoral programs or begin professional careers following the MA degree.

Degree-seeking students in the Anthropology MA program may elect to follow either a thesis or non-thesis plan of study. Each plan of study requires a minimum of 30 credit hours, 15 of which must be at the 6000-level. The thesis option is designed for students who plan to enter doctoral programs, while the non-thesis option is more appropriate for students entering or continuing professional careers following the MA degree.

The anthropology faculty conduct research in many geographical areas including Bolivia, Colombia, Egypt, Guatemala, Mexico, Peru, the Philippines, Turkey, the United States and various other locations in the Caribbean and Europe. The department also has multiple research facilities on the Orlando campus that including the following: an archaeology lab specializing in lithic and ceramic analysis, a forensic anthropology lab, a paleoethnobotany archaeology lab, a bioarchaeological sciences lab, and an interdisciplinary geospatial science lab. Students may have the opportunity to conduct research projects in the various countries or research facilities as part of their program.

Degree-seeking students in the Anthropology MA program may elect to follow either a thesis or a nonthesis program of study. Both thesis and non-thesis options require 30 hours of course work, of which half must be at the 6000 level.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Personal statement of intent that must include the student’s research interest, geographical area of interest, faculty they would like to work with, and future career plans (500 words).
- An academic writing sample such as a term paper or thesis chapter, usually between 2,500 and 5,000 words.
- A curriculum vitae.
- Three letters of recommendation that assess the applicant's potential as a graduate student. These letters should come from the applicant's previous professors and should not be more than 12-months old at the time of application.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.
- Contact with a potential adviser is recommended prior to application. Advisers are unable to grant admission to applicants prior to all application materials being submitted and reviewed by the department.

The applicant's record will be reviewed on an individual basis and evaluated to assess the applicant's potential for success in the program. Students will be selected for the program on a competitive basis. Supplemental course work may be recommended for students who do not have a degree in anthropology or are missing key undergraduate course work.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, availability and match to a faculty adviser, and the applicant's potential for completing the degree. There is no automatic connection between acceptance as a non-degree-seeking student and acceptance into this degree-granting program. Please consult the graduate program director whenever questions arise.

Graduate Application Deadlines

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<tr>
<th>Anthropology MA</th>
<th>*Fall Priority</th>
<th>Fall</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
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PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Required Courses  
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ANG5094 - Writing in Anthropology (3)
    - ANG6110 - Archaeological Theory and Method (3)
    - ANG6587 - Seminar in Biological Anthropology (3)
These courses provide an in-depth understanding of the epistemological foundations of the discipline. Students are introduced to the theory and practice of anthropology at a level of synthesis that will prepare them for future doctoral study should they wish to pursue it. These courses also establish the foundations of understanding that will prepare students for nonacademic careers that employ anthropological perspectives and knowledge.

Elective Courses
12 Total Credits

- Complete all of the following
  - A minimum of 12 additional credit hours must be selected from the list below in conjunction with the faculty adviser and/or the advisory committee members and approved by the program graduate coordinator. Additional electives may be selected as they become available or as they are added to the course curriculum. With prior approval, the student may take one elective (3 credit hours) in another department. Under special circumstances, students may enroll in a graduate-level Directed Independent Study course or a Directed Independent Research course to fulfill their non-required elective course requirements. No more than 6 hours of graduate-level courses in Directed Independent Study or Directed Independent Research may be included in a student’s program of study.
  - Earn at least 12 credits from the following:
    - ANG5166 - Problems in Maya Studies (3)
    - ANG5228 - Maya Iconography (3)
    - ANG5486 - Quantitative Research in Anthropology (3)
    - ANG5742 - Problems in Forensic Anthropology (3)
    - ANG5525C - Human Osteology (4)
    - ANG6520C - Advanced Human Osteology (3)
    - ANG6740C - Advanced Forensic Anthropology (3)
    - ANG5531 - Nutritional Anthropology (3)
    - ANG5538 - Advanced Medical Anthropology (3)
    - ANG5822 - Maya Field Research (3)
    - ANG5852 - GIS Methods in Anthropology (3)
    - ANG5853 - Advanced GIS Methods in Anthropology (3)
    - ANG6168 - The Ancient Maya (3)
    - ANG6821 - Forensic Archeology Field Methods (3)
    - ANG6181C - GIS Applications in Anthropology (3)
    - ANG6324 - Contemporary Maya (3)
    - ANG6701 - Public and Applied Anthropology (3)
    - ANG6801 - Ethnographic Research Methods (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis
    - Earn at least 6 credits from the following types of courses:
      - The thesis and oral defense are the culmination of the course work for those students who have elected the thesis option. Students electing to write a thesis must select a Thesis Advisory Committee. The student’s faculty advisor will chair the Thesis Advisory Committee. The committee will consist of three members. All members must be approved graduate faculty as cited in the most current UCF Graduate Catalog. Qualified individuals from outside the Department and also the University of Central Florida may be eligible to serve as the third member of Thesis Advisory Committees. The committee needs to be established prior to enrolling in thesis hours. When a thesis topic has been selected, students, in conjunction with their faculty advisor, will develop a thesis proposal. A proposal meeting will be scheduled with the student and advisory committee prior to enrolling in thesis hours. Students who elect to write a thesis should become familiar with the university’s requirements and deadlines for organizing and submitting the thesis. The completion of the thesis must be followed by an oral defense before the Thesis Advisory Committee. A successful format review, oral defense, and electronic submission of the thesis to the College of Graduate Studies for review completes the program requirements. Students are required to follow all procedures and timetables specified by the College of Graduate Studies.
  - Nonthesis
    - Earn at least 6 credits from the following types of courses:
      - Students selecting the nonthesis option take an additional 6 hours of elective course work for a total of 18 credit hours of electives.

Comprehensive Examination
0 Total Credits

- At the conclusion of course work, nonthesis students will be given a comprehensive examination. In consultation with the faculty adviser, two additional faculty members shall be selected to serve on the Examination Committee that will be chaired by the faculty adviser. This committee must be selected by the semester prior to the semester in which the student will take the exam. The comprehensive examination will consist of two phases. The first phase requires the student to write three (3) papers to answer a question from each member of their Examination Committee. Each paper will be 7-10 pages in length and
will be due one week (7 days) from the date the student is provided the questions. The second phase will be a 90 minute comprehensive oral examination with two formal rounds of questions from the Examination Committee. A successful comprehensive examination completes the requirements for the degree. Students are required to follow all procedures and timetables specified by the College of Graduate Studies. The examination will be based on the course work in the student's program of study. Students must notify the department's graduate program director in writing of their intent to take the exam at least one week before the date fixed for the examination. A committee composed of three faculty members will conduct the examination. The grading system for the examination is as follows: 1) Pass with Distinction, 2) Pass, 3) Conditional Pass, and 4) Fail. Students who receive a grade of Conditional Pass will be required to complete additional work as determined by the grading committee. Students who fail must retake the exam. Failure to pass the examination on the second attempt will result in dismissal from the program. Students who indicate their intent to take the examination but do not take the exam will be awarded a failing grade.

**Independent Learning**

0 Total Credits

- Students who choose the thesis option will gain independent learning experiences through their thesis research where they are expected to design and conduct their own research which culminates with the writing and defense of their thesis. Students will also gain this experience through their core course requirements as each course contains an independent research assignment. Students in the nonthesis option will gain independent learning experiences through all of their core courses, all of which contain an independent research component.

**Grand Total Credits: 30**

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource. For more information on how the Department of Anthropology allocates funding please visit our department website.

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**Grad Fellowships**

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

**Big Data Analytics PhD**

**College**

College of Sciences

**Department**

Department of Statistics

**Program Website**

http://sciences.ucf.edu/statistics/graduate

**Program Handbook**

Big Data Analytics PhD
Is this program available 100% online?
No

Program Description
Big Data Analytics will train researchers with a statistics background to analyze massive, structured or unstructured data to uncover hidden patterns, unknown correlations and other useful information that can be used to make better decisions.

The program will provide a strong foundation in the major methodologies associated with Big Data Analytics such as predictive analytics, data mining, text analytics and statistical analysis with an interdisciplinary component that combines the strength of statistics and computer science. It will focus on statistical computing, statistical data mining and their application to business, social, and health problems complemented with ongoing industrial collaborations. The scope of this program is specialized to prepare data scientists and data analysts who will work with very large data sets using both conventional and newly developed statistical methods.

The Ph.D. in Big Data Analytics requires 72 hours beyond an earned Bachelor’s degree. Required coursework includes 42 credit hours of courses, 15 credit hours of restricted elective coursework, and 15 credit hours of dissertation research.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor’s Degree

Program Prerequisites
Students must have the following background and courses completed before applying to the Big Data Analytics PhD program. These courses are: MAC 2311C: Calculus with Analytic Geometry I, MAC 2312: Calculus with Analytic Geometry II, MAC 2313: Calculus with Analytic Geometry III, MAS 3105: Matrix and Linear Algebra or MAS 3106: Linear Algebra, COP 3503C - Computer Science II. These pre-required courses are basic undergraduate courses from the Math and Computer Science departments. Students without background in COP 3503C can still apply for admission but they will need to take that course sometime after admission in the PhD program. COP 3503C serves as pre-requisite for COP 5711, which is required for the qualifying exam.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

- In addition to the general UCF graduate application requirements, applicants to this program must provide:
  - One official transcript (in a sealed envelope) from each college/university attended.
  - A personal statement identifying the area of research interest and a description of the applicant's academic and professional experiences.
  - Three letters of recommendation.
  - A Bachelor's degree or its equivalent in statistics, data analytics or a related field from a regionally accredited institution or recognized foreign institution.
  - The student should have a minimum cumulative GPA of 3.0 for all bachelor's level work completed.
  - A competitive score on the combined quantitative and verbal sections of the Graduate Record Examination (GRE) or a competitive GMAT score taken within the last five years prior to admission to the program.
  - A current curriculum vitae.

Graduate Application Deadlines

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<th>Big Data Analytics PhD</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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Degree Requirements

Required Courses
42 Total Credits

- Complete the following:
  - STA5104 - Advanced Computer Processing of Statistical Data (3)
  - STA5703 - Data Mining Methodology I (3)
  - STA6106 - Statistical Computing I (3)
  - STA6236 - Regression Analysis (3)
  - STA6238 - Logistic Regression (3)
  - STA6326 - Theoretical Statistics I (3)
  - STA6327 - Theoretical Statistics II (3)
  - STA6329 - Statistical Applications of Matrix Algebra (3)
  - STA6704 - Data Mining Methodology II (3)
  - STA7722 - Statistical Learning Theory (3)
  - STA7734 - Statistical Asymptotic Theory in Big Data (3)
  - STA6714 - Data Preparation (3)
  - CNT5805 - Network Science (3)
  - COP5711 - Parallel and Distributed Database Systems (3)

Restricted Electives (at least 9 credit hours must be STA coursework)
15 Total Credits

- Complete all of the following
- Other courses may be included in a Plan of Study with departmental approval. All Ph.D. students must have an approved Plan of Study (POS) developed by the student and advisor that lists the specific courses to be taken as part of the degree. Students must maintain a minimum GPA of 3.0 in their POS, as well as a "B" (3.0) in all courses completed toward the degree and since admission to the program.
- Earn at least 15 credits from the following:
  - STA6107 - Statistical Computing II (3)
  - Course Not Found
  - STA6226 - Sampling Theory and Applications (3)
  - STA6237 - Nonlinear Regression (3)
  - STA6246 - Linear Models (3)
  - STA6346 - Advanced Statistical Inference I (3)
  - STA6347 - Advanced Statistical Inference II (3)
  - STA6507 - Nonparametric Statistics (3)
  - STA6662 - Statistical Methods for Industrial Practice (3)
  - STA6705 - Data Mining Methodology III (3)
  - STA6707 - Multivariate Statistical Methods (3)
  - STA6709 - Spatial Statistics (3)
  - STA6857 - Applied Time Series Analysis (3)
  - STA7239 - Dimension Reduction in Regression (3)
  - STA7239 - Dimension Reduction in Regression (3)
  - STA7719 - Survival Analysis (3)
  - STA7935 - Current Topics in Big Data Analytics (3)
  - CAP5610 - Machine Learning (3)
  - CAP6307 - Text Mining I (3)
  - CAP6315 - Social Media and Network Analysis (3)
  - CAP6318 - Computational Analysis of Social Complexity (3)
  - CAP6737 - Interactive Data Visualization (3)
  - COP5537 - Network Optimization (3)
Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  STA 7980 - Dissertation Research

Examinations
0 Total Credits

- After passing candidacy, students will enroll into dissertation hours (STA7980) with their dissertation advisor. The dissertation can be either research- or project-based depending on the area of study, committee, and with the approval of the dissertation advisor.

Qualifying Examination
0 Total Credits

- The qualifying examination is a written examination that will be administered by the doctoral exam committee at the start of the fall term (end of the summer) once a year. The courses required to prepare for the examination are STA 5703, STA 6704, CNT 5805, STA 6326, STA 6327 and COP 5711. Students must obtain permission from the Graduate Program Coordinator to take the examination. Students normally take this exam just before the start of their third year and are expected to have completed the exam by the start of their fourth year. To be eligible to take the Ph.D. qualifying examination, the student must have a minimum grade point average of 3.0 (out of 4.0) in all the coursework for the Ph.D. The exam may be taken twice. If a student does not pass the qualifying exam after the second try, he/she will be dismissed from the program.

Candidacy Examination
0 Total Credits

- The candidacy exam is administered by the student's dissertation advisory committee and will be tailored to the student's individual program to propose either a research- or project-based dissertation. The candidacy exam involves a dissertation proposal presented in an open forum, followed by an oral defense conducted by the student's advisory committee. This committee will give a Pass/No Pass grade. In addition to the dissertation proposal, the advisory committee may incorporate other requirements for the exam. The student can attempt candidacy any time after passing the qualifying examination, after the student has begun dissertation research (STA7919, if necessary), but prior to the end of the second year following the qualifying examination. The candidacy examination can be taken no more than two times. If a student does not pass the candidacy exam after the second try, he/she will be removed from the program.

Admission to Candidacy
0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours. Completion of all coursework, except for dissertation hours Successful completion of the qualifying examination Successful completion of the candidacy examination including a written proposal and oral defense The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars Submittal of an approved program of study

Dissertation
0 Total Credits

- After passing the qualifying exam, the student must select a dissertation adviser. In consultation with the dissertation adviser, the student should form a dissertation advisory committee. The dissertation adviser will be the chair of the student's dissertation advisory committee. In consultation with the dissertation advisor and with the approval of the chair of the department, each student must secure qualified members of their dissertation committee. This committee will consist of at least four faculty members chosen by the candidate, three of whom must be from the department and one from outside the department or UCF. Graduate faculty members must form the majority of any given committee. A dissertation committee must be formed prior to enrollment in dissertation hours. The dissertation serves as the culmination of the coursework that comprises this degree. It must make a significant original theoretical, intellectual, practical, creative or research contribution to the student's area within the discipline. The dissertation can be either research- or project-based depending on the area of study, committee, and with the approval of the dissertation advisor. The dissertation will be completed through a minimum of 15 hours of dissertation research credit.

Independent Learning
0 Total Credits

- As will all graduate programs, independent learning is an important component of the Big Data Analytics doctoral program.
Students will demonstrate independent learning through research seminars and projects and the dissertation.

Grand Total Credits: 72

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
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Telephone: 407-823-2827
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Fax: 407-823-5241
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http://finaid.ucf.edu

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gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Biology MS

College
College of Sciences

Department
Department of Biology

Program Website
https://sciences.ucf.edu/biology/graduate/

Program Handbook
Biology MS

Program Contact Information

Kate Mansfield PhD
Associate Professor
Graduate Program Director
BioGradChair@ucf.edu
BIO 402B

Juana Pasco
Graduate Admissions Specialist
juana.pasco@ucf.edu
Telephone: 407-823-6525
BL301

Is this program available 100% online?
No
Program Description

The Master of Science in Biology program offers a broad range of research opportunities ranging from the sub-cellular to entire ecosystems. Our program offers broad-based training in a variety of disciplines including Conservation Biology, Ecology, Evolution, Physiology, Genetics, and Cell and Developmental Biology.

The Master of Science in Biology program offers a thesis option only (the non-thesis MS option is not currently accepting applications). The thesis option requires a minimum of 30 credit hours, 15 of which must be at the 6000 level. Given the thesis requirement, students who wish to pursue this degree must receive a commitment from a faculty advisor for admission into the program. The thesis option curriculum contains a minimum of 24 credit hours of coursework excluding thesis hours (note: Independent Study and Directed Research may account for a maximum of 6 of the 24 coursework credits).

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Applicants do not need to have an undergraduate degree in a biological science, but are expected to have 18 hours of biological sciences, including ecology and genetics. Courses in organic chemistry, calculus, and statistics are also recommended. After acceptance, minor deficiencies must be remedied by enrollment in the appropriate course at the first opportunity.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation that addresses the applicant’s capabilities and likelihood of success as an M.S. student.
- Résumé or CV
- A personal statement. Assessment of your application is based on your academic background, analytical skills, communication skills, and research experience. A personal statement is an opportunity to convey to the selection committee your personal, academic, and/or professional experiences that have led to your desire to attend graduate school. Include your long-term career goals and how a graduate education will help you achieve these goals. It is important to dedicate a section of your statement to discuss your research interests.
- A computer-based score of 230 (or 89 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants do not need to have an undergraduate degree in a biological science, but are expected to have 18 hours of biological sciences, including ecology and genetics. Courses in organic chemistry, calculus, and statistics are also recommended. After acceptance, minor deficiencies must be remedied by enrollment in the appropriate course at the first opportunity.

MS applicants should first identify faculty who match their own research interests, and then contact faculty in advance to inquire about research opportunities in faculty labs and to solicit agreement that a faculty member is interested in serving as the student’s thesis advisor. Applicants who do not have a consenting thesis advisor within the department faculty will not be accepted into the program.

Applicants who do not have a competitive GPA may occasionally be accepted if there is other convincing evidence of potential for high achievement and success.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Biology MS</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or teaching assistantships should apply by the Fall Priority date.

Students applying for summer or spring admission will be considered on an ad hoc basis but must complete their applications by December 1.
Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
7 Total Credits
- Complete all of the following
  - Complete the following:
    - PCB6095 - Professional Development in Biology I (1)
    - PCB6096 - Professional Development in Biology II (1)
    - PCB6466 - Methods in Experimental Ecology (3)
  - Earn at least 2 credits from the following:
    - BSC6935 - Seminar in Biology (1)
- BSC 6935 - Seminar in Biology: Students will take 1 credit hour each of two semesters.

Thesis Option
23 Total Credits
- Earn at least 23 credits from the following types of courses:
  - BSC 6971 - Thesis 6 Credit Hours (minimum)
  - Electives - 17 Credit Hours selected with the faculty adviser and advisory committee and approved by the graduate program director.

Examinations
0 Total Credits
- A thesis proposal defense is required. The purpose of the proposal defense is to present the planned research and its foundations as a seminar to an interested audience of peers and the advisory committee. The proposal should be distributed to advisory committee members two weeks in advance of the defense, and the defense should be advertised (contact the graduate program specialist two weeks in advance). Public attendees typically have an opportunity to ask questions and comment following the seminar, after which the committee meets with the student to further discuss the proposal. The advisory committee must then vote to accept or reject the proposal. The thesis proposal defense must be passed a minimum of one semester preceding the oral thesis defense (i.e., the proposal defense and thesis defense cannot occur in the same semester). When the research is completed, the final oral thesis defense is conducted similar to the proposal defense.

Non-thesis Option (NOTE: The Biology Department is no longer accepting applications to the non-thesis program)
0 Total Credits
- In addition to the 7 credit hours of required courses listed above, nonthesis students must complete 12 credit hours of restricted electives, 19 credit hours of unrestricted electives, and a research report. Currently enrolled thesis option students interested in transferring to the nonthesis option should contact the graduate program director for information. Restricted Electives—12 Credit Hours Students take 12 credit hours of courses in at least three of the five areas below. Ecology Evolutionary Biology Genetics Physiology Cell and Developmental Biology Unrestricted Electives—19 Credit Hours Students take 19 credit hours of unrestricted electives that must be approved by the program graduate director. Research Report—2 Credit Hours BSC 6909 - Research Report 2 Credit Hours Examination Nonthesis students must take a comprehensive exam no later than the semester preceding that of graduation. If a student fails the comprehensive examination, a minimum of four weeks must elapse before reexamination. The comprehensive exam may be taken a maximum of two times.

Independent Learning
0 Total Credits
- Nonthesis students are required to complete a research report as their independent learning experience. The thesis satisfies the independent learning experience for thesis option students.

Grand Total Credits: 30
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

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Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Chemistry MS

College
College of Sciences

Department
Department of Chemistry

Program Website
https://sciences.ucf.edu/chemistry/

Program Handbook
Chemistry MS

Program Contact Information

Qun Huo PhD
Professor, Program Coordinator
Qun.Huo@ucf.edu
Telephone: 407-882-2845
PVL 0422

Michelle Salcedo
Michelle.Salcedo@ucf.edu
Telephone: 407-823-5728
PSB 255

Is this program available 100% online?
No

Program Description

The Master of Science in Chemistry (MS) program prepares students for careers in the chemical industry or further graduate studies. The curriculum is designed to provide a broad overall perspective of the chemical sciences field while placing the primary emphasis upon chemistry and the application of chemical principles.

The Chemistry MS program offers both a thesis option and a nonthesis option. The thesis option requires a minimum of 30 credit hours beyond the bachelor's degree, including 16 credit hours of required courses, at least 6 credit hours of thesis research, and 8 credit hours of electives that must be approved by the student's advisory committee. The nonthesis option requires a minimum of 31 credit hours beyond the bachelor's degree, including 16 credit hours of required courses, 14 credit hours of electives that must be approved by the student's advisory committee, and 1 credit hour of independent study that culminates in a research report.

Total Credit Hours Required: 30-31 Credit Hours Minimum beyond the Bachelor's Degree
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Two letters of recommendation.
- Goal Statement
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

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gradadmissions@ucf.edu
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Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Qualifying Examinations
0 Total Credits
- All students must satisfy qualifying (proficiency) requirements in four of the five areas (analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry) during the first year by taking exams in four of these five subjects. Additional course work may be required if one or more of the qualifying exams are not satisfied. Satisfaction of this requirement will help ensure that all students are adequately prepared for the core courses. If students do not satisfy the proficiency exam requirements within the first year, they may be subject to dismissal from the program.

Required Courses
16 Total Credits
- Complete all of the following
  - Complete at least 4 of the following:
    - CHM6710 - Applied Analytical Chemistry (3)
    - CHS6240 - Chemical Thermodynamics (3)
    - CHS6251 - Applied Organic Synthesis (3)
    - CHM6440 - Kinetics and Catalysis (3)
BCH6740 - Advanced Biochemistry (3)

Students must take four of the above courses. If a student successfully completes all five required courses, one course will count toward fulfilling the electives requirement.

Seminar

- Complete all of the following
  - Earn at least 4 credits from the following:
    - CHM6936 - Graduate Chemistry Seminar (1)
  - CHM 6936 - Graduate Chemistry Seminar will be repeated 4 times.

Elective Courses
8 Total Credits

- Complete all of the following
  - All elective courses must be approved by the student's advisory committee.
  - Earn at least 8 credits from the following:
    - CHM5225 - Advanced Organic Chemistry (3)
    - CHM5235 - Applied Molecular Spectroscopy (3)
    - CHM5305 - Bioconjugate Chemistry (3)
    - CHM5450 - Polymer Chemistry (3)
    - CHM5451C - Techniques in Polymer Science (3)
    - CHM5580 - Advanced Physical Chemistry (3)
    - CHM6134 - Advanced Instrumental Analysis (3)
    - CHM6711 - Chemistry of Materials (3)
    - CHS6260 - Chemical Unit Operations and Separations (3)
    - CHS6613 - Current Topics in Environmental Chemistry (3)
  - CHM/CHS Special topics courses may be taken as offered.

Thesis/Nonthesis Option
6 - 7 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Complete all of the following
      - Earn at least 6 credits from the following:
        - CHM6971 - TREATISE (THESIS OR Research Report) (1 - 99)
      - The grounding in scientific research methodology provided by the thesis requirement is a central focus of the thesis option in the Chemistry MS program. Students will conduct research either on site or at the professional laboratories where they work. In either case, a member of the UCF Chemistry Department faculty will act as research adviser and approve the research topic. This research culminates in the writing and presentation of the thesis. The student will present his/her thesis for final examination (oral defense of thesis) by a committee consisting of three members including the research adviser. The committee has to be approved by the Graduate Coordinator of the Chemistry program. The thesis must be judged worthy of publication by the review committee and may not be submitted for examination until so deemed. For nonresident students, the thesis adviser will visit the student's laboratory, where their research is to be performed, before the research begins and on a regular basis until the work is complete.
  - Nonthesis Option
    - Complete all of the following
      - Earn at least 1 credits from the following:
        - CHM6908 - Directed Independent Studies (1 - 99)
      - Earn at least 6 credits from the following types of courses:
        - Additional Electives : 6 Credit Hours

Equipment Fee
0 Total Credits

- Full-time students in the Chemistry MS program pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 per semester.

Independent Learning
0 Total Credits

- For the thesis option, the grounding in scientific research methodology is a central focus. This research culminates in the writing and presentation of the thesis. For the nonthesis option, students take an additional 6 credit hours of approved electives and one-credit hour of Independent Study (CHM 6908), which culminates in a required report of the independent study experience.

Grand Total Credits: 30 - 31
Financial Information

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https://funding.graduate.ucf.edu

Chemistry PhD

College
College of Sciences

Department
Department of Chemistry

Program Website
https://sciences.ucf.edu/chemistry/

Program Handbook
Chemistry PhD

Program Contact Information

Qun Huo PhD
Professor
Qun.Huo@ucf.edu
Telephone: 407-882-2845
PVL 0422

Is this program available 100% online?
No
Program Description

The Chemistry PhD program focuses on all areas of modern chemistry with faculty actively engaged in research in the often interdisciplinary fields of Materials Chemistry, Environmental Chemistry, Forensic Science, Biochemistry and Chemical Education. The training prepares future scientists and educators for research within contemporary subjects which yield graduates that are very competitive when entering the workforce in industry, government, and academic positions.

The PhD program in Chemistry provides a doctoral education in five technical focal areas: Materials Chemistry, Environmental Chemistry, Forensic Science, Biochemistry and Chemical Education, drawing upon the strengths of the Department of Chemistry and other units, such as the College of Optics and Photonics, Advanced Materials Processing and Analysis Center, National Center of Forensic Science, Nanoscience and Technology Center, College of Medicine, College of Engineering and Computer Science, and the College of Community Innovation and Education. These areas meet the ever-pressing demand for the development of new materials, the increasing urgency of addressing crucial environmental and security problems, and new methods and understanding for STEM education. The curriculum has been formulated in collaboration with industrial, government, and academic scientists and represents a response to current and projected competencies needed by industry and the scientific community. The purpose of the program is to develop scientists and educators capable of conducting research to solve important problems in contemporary fields of the chemical sciences while preparing a highly skilled work force to ensure the technological/economic health and competitiveness in Central Florida and the nation.

The Chemistry PhD program requires 72 credit hours beyond the bachelor's degree with a minimum 18 credit hours of electives in the chosen sub-discipline, an original research project, and dissertation presentation. At least 27 hours of formal course work, exclusive of independent study, are required in order to fulfill degree requirements. This includes four core courses and four electives, three of which must be taken from Chemistry. Six credit hours of directed research are also required; additional courses may be specified by the student's research adviser.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

A Bachelor of Science degree in the Chemical Sciences or a closely related field.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A Bachelor of Science degree in the Chemical Sciences or a closely related field.
- The GRE is not required for admission to this program.
- Three letters of recommendations.
- A statement of purpose.
- Résumé.

Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core Courses
12 Total Credits
- Complete at least 4 of the following:
  - CHM6710 - Applied Analytical Chemistry (3)
  - CHM6440 - Kinetics and Catalysis (3)
  - CHS6251 - Applied Organic Synthesis (3)
  - CHS6240 - Chemical Thermodynamics (3)
  - BCH6740 - Advanced Biochemistry (3)

Seminar
7 Total Credits
- Complete all of the following
  - Earn at least 7 credits from the following:
    - CHM6936 - Graduate Chemistry Seminar (1)
    - CHM 6936 - Graduate Chemistry Seminar: Six seminar credits must be taken prior to presenting candidacy; the seventh seminar credit will be taken the semester before anticipated graduation.

Directed Research
6 Total Credits
- Earn at least 6 credits from the following:
  - CHM6918 - Research Report (1 - 99)

Required Elective Courses
12 Total Credits
- Complete 1 of the following
  - All students who enter the program need to take four elective courses (12 credit hours). All 12 credits must come from one of the following concentrations listed below: Materials Chemistry Concentration Environmental Chemistry Concentration Forensic Science Concentration Biochemistry Concentration Student may choose four courses from the departmental offerings (Courses beginning with CHM or CHS) or three courses from the departmental offerings and one from outside of the department (Non CHM/CHS Courses). Directed research will always be within the department. Materials Chemistry Concentration
  - Earn at least 12 credits from the following types of courses:
    - CHM 5225 - Advanced Organic Chemistry 3 Credit Hours CHM 5580 - Advanced Physical Chemistry 3 Credit Hours CHS 6260 - Chemical Unit Operations and Separations 3 Credit Hours CHM 6711 - Chemistry of Materials 3 Credit Hours CHM 6620 - Solid State Inorganic Chemistry 3 Credit Hours CHM 5450 - Polymer Chemistry 3 Credit Hours CHM 5451C - Techniques in Polymer Science 3 Credit Hours CHM 5305 - Bioconjugate Chemistry 3 Credit Hours CHM 6938 - Special Topics 3 Credit Hours CHM 5235 - Applied Molecular Spectroscopy 3 Credit Hours CHM 6134 - Advanced Instrumental Analysis 3 Credit Hours CHM 7938 - Frontiers in Chemistry 1 Credit Hours (three semesters, 1 credit hour each semester) CHM 7919 - Directed Research in Materials Chemistry 6 Credit Hours Courses from outside the Chemistry Department. OSE 5203 - Geometrical Optics 3 Credit Hours OSE 6313 - Materials for Optical Systems 3 Credit Hours OSE 5414 - Fundamentals of Optoelectronic Devices 3 Credit Hours EMA 6129 - Solidification and Microstructure Evolution 3 Credit Hours EMA 6130 - Advanced Phase Transformations in Materials 3 Credit Hours EMA 6136 - Diffusion in Solids 3 Credit Hours EMA 6516 - X-ray Diffraction and Crystallography 3 Credit Hours PHY 5933 - Selected topics in biophysics of macromolecules 3 Credit Hours PCB 5527 - Genetic Engineering and Biotechnology 3 Credit Hours BSC 5408L - Advanced Biology Laboratory Techniques 3 Credit Hours Environmental Chemistry Concentration
  - Earn at least 12 credits from the following types of courses:
Additional Electives
20 Total Credits

- Earn at least 20 credits from the following types of courses:
  Students who enter the program without a master's degree will be required to take 20 additional hours. These 20 hours must be in the same Concentration as the other 12 Required Electives selected above. Students and advisers need to be careful about how elective courses are selected so that at least 12 credit hours of electives must be formal course work, exclusive of independent study. Doctoral research, dissertation research, independent study and directed research may also be used to satisfy additional hours in the concentration.

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  CHM 7980 - Doctoral Dissertation Within three months before defending the dissertation, the student will present a dissertation research seminar to the Department of Chemistry, registering for one credit hour of seminar.

Qualifying Examinations
0 Total Credits

- Students will be expected to satisfy qualifying (proficiency) requirements (analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry) during the first year by taking exams in four of these five areas. Additional course work may be required if one or more of the qualifying exams is not satisfied. These exams may be waived if the entering student possesses an MS degree in the Chemical Sciences. Satisfaction of this requirement will help ensure that all students are adequately prepared for the core courses. If a student does not satisfy the proficiency exam requirements within the first year, the student may be subject to dismissal from the program.

Candidacy Examination
0 Total Credits

- By the end of the sixth semester (excluding summers), students must pass the PhD candidacy oral examination. The candidacy examination consists of writing and orally defending an original research proposal to the student’s program faculty advisory committee. The research proposal will focus on a topic not directly related to the student’s dissertation research and must be approved by the adviser and advisory committee. Failure to pass the PhD candidacy exam will result in dismissal from the program.

Admission to Candidacy
0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours: Completion of all required and formal elective course work, except for dissertation hours. Successful completion of the candidacy examination. Successful defense of the written dissertation proposal. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study.

Dissertation Defense
0 Total Credits

2021-2022 Graduate Catalog
The final requirement for the PhD degree is completion of a satisfactory written dissertation of the student's research, along with successful presentation and defense of the dissertation to the advisory committee, including one doctorate-holding non-program faculty member.

Equipment Fee
0 Total Credits

- Full-time students in the Chemistry PhD program pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 per semester.

Independent Learning
0 Total Credits

- The grounding in scientific research methodology provided by the dissertation requirement is a central focus of the proposed program. Students will conduct research either on site or at the professional laboratories where they work. In either case, a member of the UCF Chemistry Department graduate faculty will act as research adviser and approve the research topic. This research culminates in the writing and presentation of the dissertation. The student will present his/her dissertation for examination by a committee consisting of a minimum of five members including the research adviser. One of the committee members will be from outside the Chemistry department. A majority of the program committee members will hold tenure-earning faculty appointments in the Chemistry Department. The committee has to be approved by the Graduate Coordinator of the Chemistry program and the department Chair. The dissertation must be judged worthy of publication by the dissertation committee and may not be submitted for examination until so deemed. For students performing their dissertation research off campus, the dissertation adviser will visit the student's laboratory, where their research is to be performed, before the research begins and on a regular basis until the work is complete.

Grand Total Credits: 72

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Clinical Psychology MA

College
College of Sciences

Department
Department of Psychology

Program Website
https://sciences.ucf.edu/psychology/graduate/ma-clinical/

Program Contact Information

Brian Fisak PhD
Associate Professor
brian.fisak@ucf.edu
Telephone: 407-708-2822

2021-2022 Graduate Catalog
Is this program available 100% online?
No

Licensure Disclosure
This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-COS-Clinical-Psychology-MA.pdf.
Program Description

The Master of Arts Clinical Psychology Program is a terminal master's program offered at the UCF Sanford/Lake Mary Campus. The program consists of two tracks:

Applied Pre-Licensure/Non-Thesis Track: The Master of Arts Clinical Psychology Program is a terminal master's program offered at the UCF Sanford/Lake Mary Campus. The Applied Pre-Licensure/Non-Thesis Track is designed for students interested in delivering clinical services in a variety of settings including community agencies and private practice. After completing the program and after two years of postgraduate supervised clinical experience, graduates are eligible to become Licensed Mental Health Counselors (LMHCs) in the state of Florida.

Can you provide an overview of the Pre-licensure Track?

This track has been offered for decades. As mentioned in our catalogue description, the primary goal of this track is to train students to become licensed, master's-level clinicians. More specifically, graduates of this track are eligible to become Licensed Mental Health Counselors (LMHCs) in the State of Florida, and they will likely be eligible for master’s level licensure in most other states; however, we are unable to confirm the licensure and certification requirements of other states. Consequently, if you intend to pursue such credentialing outside of Florida, we advise you to contact the applicable state credentialing authority to familiarize yourself with its specific requirements and determine if our program meets its eligibility criteria.

Can I get into a doctoral program if I complete the pre-licensure track?

Yes! As mentioned above, most students in the pre-licensure track practice at the master’s level upon graduation. Having said that, each year we have a number of graduating students who apply to and get into Ph.D. or Psy.D. programs (usually around 2-4 students out a cohort of 15-16 students). Engagement in research may increase students’ competitiveness when applying to doctoral programs.

Can I do research if I am in the pre-licensure track?

Yes. Research is not required as part of this track; however, students in the pre-licensure track are often engaged in collaborative research with faculty. It is common for students in this track to present research at scientific conferences, and some of these students become coauthors of peer-reviewed publications in scientific journals.

Research/Thesis Track: The Master of Arts Clinical Psychology Program is a terminal master's program offered at the UCF Sanford/Lake Mary Campus. The Research/Thesis Track is designed for students who wish to focus on clinical research and/or are interested in pursuing entry into a doctoral program following the completion of their Master's degree. Students who complete this option are not eligible to become Licensed Mental Health Counselors upon graduation.

Can you provide an overview of the research/thesis Track?

The faculty developed this track for students who are interested in focusing on research and/or are interested in gaining entry into a research-focused doctoral program. This track is a great fit for students who are not particularly interested in clinical practice at the master’s level upon graduation. In addition to an empirical thesis, we encourage students in this track to engage in other research projects. Students in the thesis track have a reduced course load relative to the prelicensure track, which allows more time for engagement in research. The tradeoff is that students in this track will not be eligible for licensure at the master’s level when they graduate. We anticipate admitting no more than 5 to 6 students into the thesis track this year.

Is it possible to get clinical experience in the research/thesis track?

Yes. It is possible for students in the research/thesis track to chose to do a practicum. This experience would be approximately 10 hours/week during one spring semester.

Am I guaranteed admission into a Ph.D. program if I am in the research/thesis track?

No. The program has the potential to increase a student’s competitiveness when applying to research-focused doctoral programs; however, we cannot guarantee admission into a doctoral program.

Please scroll to the bottom of this page for further details on these Tracks.

Please visit the program’s website for more information, including a list of program faculty members, and frequently asked questions (FAQs), including additional information about each track: https://sciences.ucf.edu/psychology/graduate/ma-clinical/.

Please see the specific admission, application requirement, financial and contact information for the track in which you are interested.

2021-2022 Graduate Catalog
Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

2021-2022 Graduate Catalog
Program Details

At times, we have prospects who are uncertain as to which is the best track for them: Pre-Licensure or Research Thesis Track. The following information is to help you make a best decision related to your academic and professional aspirations.

Pre-licensure Track

Can you provide an overview of the Pre-licensure Track?

This track has been offered for decades. As mentioned in our catalogue description, the primary goal of this track is to train students to become licensed, master’s-level clinicians. More specifically, graduates of this track are eligible to become Licensed Mental Health Counselors (LMHCs) in the State of Florida, and they will likely be eligible for master’s level licensure in most other states. This track includes a full course load (9-12 credits/per semester) for two years. Students in this track complete a practicum (10 hours/week in the first spring in the program) and internship (20 hours/week in the fall, spring, and summer semesters in the second year in the program). A majority of the graduates of this program enter clinical practice and obtain licensure at the master’s level. We usually admit 15 to 16 students into this track each fall term.

How do I get licensed?

Students in the applied/prelicensure track meet the eligibility criteria for licensure as a Licensed Mental Health Counselor (LMHC) in the State of Florida. Please note that more details about eligibility criteria can be found on the Florida Department of Health website. In addition, our students are also eligible for similar licensure in most other states; however, we are unable to confirm the licensure and certification requirements of other states. Consequently, if you intend to pursue such credentialing outside of Florida, we advise you to contact the applicable state credentialing authority to familiarize yourself with its specific requirements and determine if our program meets its eligibility criteria.

Can I get into a doctoral program if I complete the pre-licensure track?

Yes! As mentioned above, most students in the pre-licensure track practice at the master’s level upon graduation. Having said that, each year we have a number of graduating students who apply to and get into Ph.D. or Psy.D. programs (usually around 2-4 students out a cohort of 15-16 students). Engagement in research may increase students’ competitiveness when applying to doctoral programs.

Can I do research if I am in the pre-licensure track?

Yes. Research is not required as part of this track; however, students in the pre-licensure track are often engaged in collaborative research with faculty. It is common for students in this track to present research at scientific conferences, and some of these students become coauthors of peer-reviewed publications in scientific journals.

Research/Thesis Track

Can you provide an overview of the research/thesis Track?

The faculty developed this track for students who are interested in focusing on research and/or are interested in gaining entry into a research-focused doctoral program. This track is a great fit for students who are not particularly interested in clinical practice at the master’s level upon graduation. In addition to an empirical thesis, we encourage students in this track to engage in other research projects. Students in the thesis track have a reduced course load relative to the prelicensure track, which allows more time for engagement in research. The tradeoff is that students in this track will not be eligible for licensure at the master’s level when they graduate. We anticipate admitting no more than 5 to 6 students into the thesis track this year.

Is it possible to get clinical experience in the research/thesis track?

Yes. It is possible for students in the research/thesis track to chose to do a practicum. This experience would be approximately 10 hours/week during one spring semester.

Am I guaranteed admission into a Ph.D. program if I am in the research/thesis track?

No. The program has the potential to increase a student’s competitiveness when applying to research-focused doctoral programs; however, we cannot guarantee admission into a doctoral program.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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https://funding.graduate.ucf.edu

Clinical Psychology MA - Clinical Psychology MA, Applied Pre-Licensure Non-Thesis Track

College
College of Sciences

Department
Department of Psychology

Track Website
https://sciences.ucf.edu/psychology/graduate/ma-clinical/

Track Handbook
Clinical Psychology MA, Applied Pre Licensure Non Thesis Track

Track Contact Information

Brian Fisak PhD
Associate Professor
brian.fisak@ucf.edu
Telephone: 407-708-2822

Is this track available 100% online?
No

Licensure Disclosure

This program has potential ties to professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-COS-Clinical Psychology-MA.pdf.
**Track Description**

The Master of Arts Clinical Psychology Program is a terminal master's program offered at the UCF Sanford/Lake Mary Campus. The Applied Pre-Licensure/Non-Thesis Track is designed for students interested in delivering clinical services in a variety of settings including community agencies and private practice. After completing the program and after two years of postgraduate supervised clinical experience, graduates are eligible to become Licensed Mental Health Counselors (LMHCs) in the state of Florida. Please visit the program's website for more information, including a list of program faculty members and answers to frequently asked questions (FAQs): https://sciences.ucf.edu/psychology/graduate/ma-clinical/faqs/.

The Clinical Psychology Applied Pre-Licensure/Non-Thesis Track requires a minimum of 61 credit hours beyond the Bachelor's degree, including 49 credit hours of required courses and 12 clinical internship credit hours. This track is for students primarily interested in clinical practice at the Master's level upon graduation; however, some students in this track have applied to and gained admission into doctoral programs after graduation.

The primary areas of emphasis include assessment or evaluation skills and intervention or psychotherapy skills, and the program curriculum is consistent with the educational criteria for licensure as a mental health counselor in the state of Florida. Program graduates have been involved in mental health service delivery through individual, marital, family, and group psychotherapy, as well as crisis intervention and other specialized therapeutic procedures. Although research is not required in this track, students in this track do have the opportunity to engage in collaborative research with program faculty.

**Total Credit Hours Required: 61 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

A bachelor's degree in Psychology or a related area. A minimum of 15 semester hours of undergraduate psychology courses are required as a prerequisite for applicants with a degree in a field other than psychology. Completion of courses in abnormal psychology and research methods and/or statistics is strongly recommended. Other recommended courses include clinical psychology, developmental psychology, personality theory, physiological psychology, and psychology of diversity.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Psychology or a related area. A minimum of 15 semester hours of undergraduate psychology courses are required as a prerequisite for applicants with a degree in a field other than psychology. Completion of courses in abnormal psychology and research methods and/or statistics is strongly recommended. Other recommended courses include clinical psychology, developmental psychology, personality theory, physiological psychology, and psychology of diversity.
- The GRE is not required for admission to this program.
- Resume or Curriculum Vita.
- Personal Statement in which the applicant describes her or his experience, career goals and interests, and how this specific program is a good fit with the applicant's interests and goals. Please see program website for a list of program faculty and frequently asked questions (FAQs): https://sciences.ucf.edu/psychology/graduate/ma-clinical/
- Three letters of recommendation, with at least two furnished by instructors who are acquainted with the applicant.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Admission:

Admission into the clinical master's program is competitive and meeting minimum UCF admission criteria does not guarantee acceptance into the program. Members of the program faculty review each student's credentials and invite competitive candidates for an interview. Final admission is based on submitted materials (e.g. GPA, letters of reference, personal statement, clinical experience, research experience) and performance on the interview. More generally, the program faculty consider the applicant's abilities, past performance, match between faculty expertise and the applicant's career/academic goals, and the applicant's potential to successfully complete the program.

Students are admitted to full-time status and complete the MA program in two calendar years (including summers).

**Graduate Application Deadlines**

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<thead>
<tr>
<th>Clinical Psychology MA</th>
<th><em>Fall Priority</em></th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<td>Domestic Applicants</td>
<td>Jan 1</td>
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<tr>
<td>International Applicants</td>
<td>Jan 1</td>
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**Application Deadlines Notes**

All application materials must be submitted by the appropriate deadline listed below. This program is offered at the Sanford/Lake Mary Campus.

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

*Anthony Tufano*
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
49 Total Credits

- Complete the following:
  - CLP5166 - Advanced Abnormal Psychology (3)
  - CLP6181 - Psychological Theories of Substance Abuse Treatment (3)
  - CLP6191 - Multicultural Psychotherapy (3)
  - CLP6195C - Introduction to Psychotherapy (3)
  - CLP6321 - Psychotherapy in Community Settings (3)
  - CLP6441C - Individual Psychological Assessment I (3)
  - CLP6457C - Group Psychotherapy (3)
  - CLP6459C - Human Sexuality, Marriage, and Sex Therapies (3)
  - CLP6461 - Cognitive-Behavioral Therapy (3)
  - CLP6449C - Career and Lifestyle Assessment (3)
  - CLP6932 - Ethical and Professional Issues in Mental Health Practices (3)
  - CYP6942 - Practicum in Psychological Counseling (3)
  - DEP5057 - Developmental Psychology (3)
  - PSY6216C - Research Methodology (4)
  - PSB5005 - Physiological Psychology (3)
  - CLP6460C - Introduction to Child, Adolescent, and Family Therapies (3)

Internship
12 Total Credits

- Complete all of the following
  - Earn at least 12 credits from the following:
    - CYP6948C - Psychology Internship (1 - 99)

  - The purpose of the internship requirement is to provide the MA candidate in Clinical Psychology with comprehensive, practical experiences under the supervision of licensed mental health professionals. A public agency or nonprofit institution with nondiscriminatory practices is the prototype. The intern is assigned to an acceptable agency for a total of 1000 hours during three consecutive academic semesters (20 hours per week for 16 weeks during fall and spring terms, and 30 hours per week for 12 weeks during the summer term). An additional commitment of three hours per week is required for the interns to meet as a group with a departmental faculty member for review, feedback, and discussions. A major portion of intern training is in the area of psychotherapy/counseling. The intern also engages in differential diagnosis and participates in a wide variety of psychological assessment procedures. It is believed that supervision by qualified and experienced personnel is the primary learning mode by which the intern develops professional expertise and augments classroom didactics. Satisfactory completion ("B" [3.0-grade point average] or better) of the following courses is required prior to internship: CLP 5166, CLP 6195C, CLP 6441C, and CYP 6942. The program director and clinical placement coordinator approve internship placements. Interns are provided with a system for maintaining accurate accounts of their activity during each week of their internship. In addition, both the intern and supervisor(s) complete an Internship Evaluation form each semester.

Comprehensive Exam and Case Presentation
0 Total Credits

- The culminating academic experience for all students in the program is successful completion of a comprehensive exam and case presentation. All students must complete the comprehensive exam their final semester. The exam covers the core professional knowledge required by state licensing agencies. Students also are required to complete a written and oral clinical case presentation. Criteria for passing the exam and presentation are provided in the program handbook.

Grand Total Credits: 61
**Track Details**

**Additional Program Requirements**

For all students in the Clinical MA program, successful completion requires demonstration of academic and clinical excellence. Students who receive grades lower than B (including B- and grades of U in courses graded satisfactory/unsatisfactory) in six semester hours or more will be dismissed from the program. It is a program requirement that all coursework with a grade lower than B be retaken and completed successfully, although both grades are still calculated in the GPA.

In addition to academic excellence, students are expected to demonstrate clinical skills and personal resources necessary to meet the demands of the program and for clinical practice. At the end of each semester, students will receive written feedback from the faculty on the extent to which they are meeting the programs requirements and performance expectations. Student progress will be rated as satisfactory or unsatisfactory. Students who receive an unsatisfactory rating will be asked to complete remediation as determined by the faculty. If the identified problems are not remedied and/or a second unsatisfactory rating is received, the student will be dismissed from the program.

**Summer Enrollment**

Summer enrollment is required for all students in this track.

**Independent Learning**

There are several independent learning experiences built into the programs of study that help to individualize the training program. Students work with the internship coordinator and academic advisor to select specific practicum and internship placements. During practicum and internship students will have the opportunity to present cases that incorporate an integration of assessment data and its interpretation, theoretical conceptualization, treatment planning, course of therapy, and available outcome data. This is done ensuring client confidentiality and the highest ethical standards. Although not required for this track, students in this track do have the opportunity to engage in collaborative research with program faculty.

**Can you provide an overview of the Pre-licensure Track? Is this the right track for me to apply to?**

This track has been offered for decades. As mentioned in our catalogue description, the primary goal of this track is to train students to become licensed, master’s-level clinicians. More specifically, graduates of this track are eligible to become Licensed Mental Health Counselors (LMHCs) in the State of Florida, and they will likely be eligible for master’s level licensure in most other states. This track includes a full course load (9-12 credits/per semester) for two years. Students in this track complete a practicum (10 hours/week in the first spring in the program) and internship (20 hours/week in the fall, spring, and summer semesters in the second year in the program). A majority of the graduates of this program enter clinical practice and obtain licensure at the master’s level. We usually admit 15 to 16 students into this track each fall term.

**How do I get licensed?**

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**Can I get into a doctoral program if I complete the pre-licensure track?**

Yes! As mentioned above, most students in the pre-licensure track practice at the master’s level upon graduation. Having said that, each year we have a number of graduating students who apply to and get into Ph.D. or Psy.D. programs (usually around 2-4 students out a cohort of 15-16 students). Engagement in research may increase students’ competitiveness when applying to doctoral programs.

**Can I do research if I am in the pre-licensure track?**

Yes. Research is not required as part of this track; however, students in the pre-licensure track are often engaged in collaborative research with faculty. It is common for students in this track to present research at scientific conferences, and some of these students become coauthors of peer-reviewed publications in scientific journals.
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Fellowship Information

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Clinical Psychology MA - Clinical Psychology MA, Research Thesis Track

College

College of Sciences

Department

Department of Psychology

Track Website

https://sciences.ucf.edu/psychology/graduate/ma-clinical/

Track Handbook

Clinical Psychology MA, Thesis Track

Track Contact Information

Brian Fisak PhD
Associate Professor
brian.fisak@ucf.edu
Telephone: 407-708-2822

Is this track available 100% online?

No

Track Description

The Master of Arts Clinical Psychology Program is a terminal master's program offered at the UCF Sanford/Lake Mary Campus. The Research/Thesis Track is designed for students who wish to focus on clinical research and/or are interested in pursuing entry into a doctoral program following the completion of their Master's degree. Students who complete this option are not eligible to become Licensed Mental Health Counselors upon graduation. Please visit the program's website for more information, including a list of program faculty members and frequently asked questions (FAQs): https://sciences.ucf.edu/psychology/graduate/ma-clinical/faqs/.

The Clinical Psychology MA Research/Thesis Track program requires a minimum of 38 credit hours beyond the bachelor's degree, including 32 credit hours of required courses, and 6 thesis hours. The curriculum emphasizes the development of research experience and skills. Further, the curriculum is designed to be flexible, with numerous elective courses to help the student pursue specific interests and to work towards specific goals. Students in this track work closely with a faculty mentor.

Note: This track is for students who wish to focus on clinical research and/or preparation for doctoral-level study upon graduation. Students who complete this track will not be license-eligible when they graduate. Completion of this track does not guarantee admissions into a doctoral program.

Total Credit Hours Required: 38 Credit Hours Minimum beyond the Bachelor's Degree
**Track Prerequisites**

A bachelor's degree in Psychology or a related area. A minimum of 15 semester hours of undergraduate psychology courses are required as a prerequisite for applicants with a degree in a field other than psychology. Completion of courses in abnormal psychology and research methods and/or statistics is strongly recommended. Other recommended courses include clinical psychology, developmental psychology, personality theory, physiological psychology, and psychology of diversity.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in Psychology or a related area. A minimum of 15 semester hours of undergraduate psychology courses are required as a prerequisite for applicants with a degree in a field other than psychology. Completion of courses in abnormal psychology and research methods and/or statistics is strongly recommended. Other recommended courses include clinical psychology, developmental psychology, personality theory, physiological psychology, and psychology of diversity.
- The GRE is not required for admission to this program.
- Resume or Curriculum Vita.
- Personal Statement in which the applicant describes her or his experience, career goals and research interests, and how this specific program is a good fit with the applicant's career interests and goals. Please see program website for a list of program faculty and their research interests and frequently asked questions (FAQs): [https://sciences.ucf.edu/psychology/graduate/ma-clinical/](https://sciences.ucf.edu/psychology/graduate/ma-clinical/)
- Three letters of recommendation, with at least two provided by instructors who are acquainted with the applicant.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from [World Education Services (WES)](http://www.wes.org) or [Josef Silny and Associates, Inc.](http://www.josefsilny.com) only.

Admission:

Admission into the clinical master's program is competitive and meeting minimum UCF admission criteria does not guarantee acceptance into the program. Members of the program faculty review each student's credentials and invite competitive candidates for an interview. Final admission is based on submitted materials (e.g. GPA, letters of reference, personal statement, clinical experience, research experience, and interview performance) and performance on the interview. More generally, the program faculty consider the applicant's abilities, past performance, match between faculty expertise/research interests and the applicant's career/academic goals, and the applicant's potential to successfully complete the program.

Students are admitted to full-time status and complete the MA program in two calendar years (including summers).

**Graduate Application Deadlines**

<table>
<thead>
<tr>
<th>Clinical Psychology MA</th>
<th><em>Fall Priority</em></th>
<th>Fall</th>
<th>Spring</th>
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<td>International Applicants</td>
<td>Jan 1</td>
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</tr>
</tbody>
</table>

**Application Deadlines Notes**

All application materials must be submitted by the appropriate deadline listed below. This program is offered at the Sanford/Lake Mary Campus.

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230

Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete the following:
  - CLP5166 - Advanced Abnormal Psychology (3)
  - CLP6195C - Introduction to Psychotherapy (3)
  - CLP6932 - Ethical and Professional Issues in Mental Health Practices (3)

General Clinical Elective Courses
15 Total Credits

- Complete all of the following
  - In addition to the requirements associated with the Clinical Psychology Core, select 5 additional courses (advisor permission required)
  - Complete at least 5 of the following:
    - CLP6181 - Psychological Theories of Substance Abuse Treatment (3)
    - CLP6191 - Multicultural Psychotherapy (3)
    - CLP6321 - Psychotherapy in Community Settings (3)
    - CLP6441C - Individual Psychological Assessment I (3)
    - CLP6449C - Career and Lifestyle Assessment (3)
    - CLP6457C - Group Psychotherapy (3)
    - CLP6459C - Human Sexuality, Marriage, and Sex Therapies (3)
    - CLP6460C - Introduction to Child, Adolescent, and Family Therapies (3)
    - CLP6461 - Cognitive-Behavioral Therapy (3)
    - CYP6942 - Practicum in Psychological Counseling (3)
    - DEP5057 - Developmental Psychology (3)
    - PSB5057 - Physiological Psychology (3)

Research Courses
12 Total Credits

- Complete all of the following
  - Complete the following:
    - CLP6527C - Measurement, Research Design, and Statistical Analysis in Clinical Psychology I (4)
    - CLP6528C - Measurement, Research Design, and Statistical Analysis in Clinical Psychology II (4)
  - Earn at least 4 credits from the following:
    - PSY6971 - Thesis (1 - 99)

Grand Total Credits: 36
Track Details

Additional Program Requirements

For all students in the Clinical MA program, successful completion requires demonstration of academic and excellence. Students who receive grades lower than B (including B- and grades of U in courses graded satisfactory/unsatisfactory) in six semester hours or more will be dismissed from the program. It is a program requirement that all course work with a grade lower than B be retaken and completed successfully, although both grades are still calculated in the GPA.

In addition to academic excellence, students are expected to demonstrate skills and personal resources that are up to the demands of the program. At the end of each semester, students will receive written feedback from the faculty on the extent to which they are meeting the programs requirements and performance expectations. Student progress will be rated as satisfactory or unsatisfactory. Students who receive an unsatisfactory rating will be asked to complete remediation as determined by the faculty. If the identified problems are not remedied and/or a second unsatisfactory rating is received, the student will be dismissed from the program.

Summer Enrollment

Summer enrollment may be required for completion of the program.

Independent Learning

There are several independent learning experiences built into the programs of study that help to individualize the training program. Students who pursue the research thesis track engage in independent learning through the design and implementation of original research in collaboration with faculty. They will work closely with a faculty mentor in relation to research and selection of electives. Further, although not required, students have the opportunity to take a clinical practicum in their second year in the program to gain clinical experience.

Can you provide an overview of the research/thesis Track? Is this the right track for me to apply to?

The faculty developed this track for students who are interested in focusing on research and/or are interested in gaining entry into a research-focused doctoral program. This track is a great fit for students who are not particularly interested in clinical practice at the master’s level upon graduation. In addition to an empirical thesis, we encourage students in this track to engage in other research projects. Students in the thesis track have a reduced course load relative to the prelicensure track, which allows more time for engagement in research. The tradeoff is that students in this track will not be eligible for licensure at the master’s level when they graduate. We anticipate admitting no more than 5 to 6 students into the thesis track this year.

Is it possible to get clinical experience in the research/thesis track?

Yes. It is possible for students in the research/thesis track to chose to do a practicum. This experience would be approximately 10 hours/week during one spring semester.

Am I guaranteed admission into a Ph.D. program if I am in the research/thesis track?

No. The program has the potential to increase a student’s competitiveness when applying to research-focused doctoral programs; however, we cannot guarantee admission into a doctoral program.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student’s graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Clinical Psychology PhD
College
College of Sciences

Department
Department of Psychology

Program Website
https://sciences.ucf.edu/psychology/graduate/ph-d-clinical/

Program Handbook
Clinical Psychology PhD

Program Contact Information
Jeffrey Bedwell PhD
Professor
jeffrey.bedwell@ucf.edu
Telephone: 407-823-5858

Kenneth Davis
Graduate Admissions Specialist
kenneth.davis@ucf.edu
Telephone: 407-823-2157

Is this program available 100% online?
No

Licensure Disclosure
This program has potential ties to state-regulated professional licensure or certification in the field. For more information on how this program may prepare you in that regard, please visit https://apq.ucf.edu/files/Licensure-Disclosure-COS-Clinical-Psychology-PhD.pdf.

Program Description
The Psychology Department offers a PhD in Clinical Psychology, educating students in both the science and the practice of clinical psychology.

The Clinical Psychology track in the Psychology PhD Program emphasizes the scientist-practitioner model of training as promulgated by the American Psychological Association (APA). The doctoral program in Clinical Psychology is accredited by the American Psychological Association.

The PhD Program in Clinical Psychology at the University of Central Florida educates graduate students “to generate and integrate scientific and professional knowledge, attitudes, and skills to further psychological science, professional practice, and human welfare. Graduates are capable of functioning as a scientist and a practitioner and may function as either or both, consistent with the highest standards in psychology” (National Conference on the Education and Training of Scientist-Practitioners for the Professional Practice of Psychology, 1990). The PhD program aspires to achieve excellence in research and clinical training and to contribute to and perpetuate science and practice in the field of Clinical Psychology through faculty and graduate student involvement in scholarly and professional activities.

Consistent with the mission of a major metropolitan university, the Clinical Psychology PhD program at UCF takes advantage of and builds upon community partnerships. Our partnerships with public and private health service delivery resources in the Central Florida area provides externship training sites and research opportunities.

The Clinical Psychology track in the Psychology PhD Program is designed to be a full-time program, with some summer enrollment expected. There is a total of 86 semester hours of courses, practica, and research requirements.

Total Credit Hours Required: 86 Credit Hours Minimum beyond the Bachelor's Degree. 56 Credit Hours Minimum beyond the Master's Degree.

Program Prerequisites
Students must have obtained a baccalaureate or higher degree in Psychology, prior to the start of the term for which the student is admitted, from a regionally accredited institution or from a recognized foreign institution. Students without a baccalaureate or higher degree from an accredited institution (or equivalent) are not admitted to graduate degree programs, graduate certificate programs, or graduate nondegree status. If the baccalaureate degree does not include a major in Psychology, students must have completed at least 18 credit hours of Psychology courses at the undergraduate level or above. These courses must include Intro/General Psychology, Research Methods/Statistics, Abnormal Psychology, and Personality Theory/Psychology. The following courses are strongly encouraged: Social Psychology, Cognitive Psychology, Biological/Physiological Psychology, and Developmental Psychology. The program requires that History and Systems of Psychology is completed at the undergraduate level with a grade of at least a "B." This can either be completed prior to starting the program or as an undergraduate course during the program. Applicants who enter with a Master's degree may be eligible to waive or transfer up to 30 credit hours for credits earned from a completed Master's degree from an accredited institution recognized by UCF (as long as this number does not exceed 50% of the program's requirements). In these cases, each applicant's situation will be reviewed individually based on program standards and requirements.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Students must have obtained a baccalaureate or higher degree in Psychology, prior to the start of the term for which the student is admitted, from a regionally accredited institution or from a recognized foreign institution. Students without a baccalaureate or higher degree from an accredited institution (or equivalent) are not admitted to graduate degree programs, graduate certificate programs, or graduate nondegree status. If the baccalaureate degree does not include a major in Psychology, students must have completed at least 18 credit hours of Psychology courses at the undergraduate level or above. These courses must include Intro/General Psychology, Research Methods/Statistics, Abnormal Psychology, and Personality Theory/Psychology. The following courses are strongly encouraged: Social Psychology, Cognitive Psychology, Biological/Physiological Psychology, and Developmental Psychology. The program requires that History and Systems of Psychology is completed at the undergraduate level with a grade of at least a "B." This can either be completed prior to starting the program or as an undergraduate course during the program. Applicants who enter with a Master's degree may be eligible to waive or transfer up to 30 credit hours for credits earned from a completed Master's degree from an accredited institution recognized by UCF (as long as this number does not exceed 50% of the program's requirements). In these cases, each applicant's situation will be reviewed individually based on program standards and requirements.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript from each college/university attended.
- The GRE is not required for admission to this program.
- Curriculum Vitae.
- Three letters of recommendation, with at least two furnished by college or university professors who are acquainted with the applicant.
- A clear statement concerning the type of research the applicant wishes to pursue as a graduate student, and the Clinical Faculty member the applicant believes would be best suited to serve as the applicant's major professor and mentor.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Due to the competitive nature of the application process, strong candidates are likely to meet criteria that are more stringent than those listed here. Strong candidates are also likely to have both research and clinical experience. A department admissions committee reviews the applicants' credentials and may invite a group of candidates for an interview. Final selection is based on both submitted credentials and the interview.

In 2020, the Doctoral Program in Clinical Psychology received 230 applications for admission, and eight students were offered admission to the Ph.D. program. Accepted students had, on average, between 1.5 and 2 years prior research experience and were well matched with the Clinical Faculty's research and training interests.

Previous graduate work will be considered on a case-by-case basis (including acceptance of a previously completed Master's Thesis). Graduate students may be eligible to waive up to 30 credits earned from a completed Master's degree from an accredited institution. Each graduate student's situation is considered individually by the Clinical Faculty. Graduate students should submit a request to the Director of Clinical Training and provide a course catalog description, course syllabus, and other relevant information to enable the Clinical Faculty to make a determination of equivalency with a course in the PhD curriculum. The waived hours must come from graduate-level course work (e.g., numbered 5000 and above in the Florida SUS approach). No courses with grades less than "B" will be considered for waiver.

Graduate students who completed an empirical Master's Thesis at their former accredited institution will need to complete an additional Master's Thesis while enrolled in the program at UCF.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Clinical Psychology PhD</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
**Graduate School Contact**

**Anthony Tufano**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

**Required Courses**  
71 Total Credits

- **Details:**

**Psychology Foundation Courses**  
12 Total Credits

- **Complete the following:**
  - DEP5057 - Developmental Psychology (3)  
  - SOP5059 - Advanced Social Psychology (3)  
  - PSB6348 - The Neuroanatomical Basis of Psychological Function (3)  
  - EXP6506 - Human Cognition and Learning (3)

**Integrative Course**  
3 Total Credits

- **Complete all of the following**
  - Complete the following:
    - CLP7939 - Affective Neuroscience (3)
  - This course may be substituted with any future course that the program designates as an integrative course.

**Research Courses**  
18 Total Credits

- **Complete all of the following**
  - Complete the following:
    - PSY7217C - Advanced Research Methodology I (4)  
    - PSY7218C - Advanced Research Methodology II (4)  
    - PSY7219C - Advanced Research Methodology III (4)
  - Earn at least 6 credits from the following:
    - PSY6971 - Thesis (1 - 99)

**Clinical Courses**  
32 Total Credits

- **Complete all of the following**
  - Complete the following:
    - CLP7447C - Clinical Psychological Assessment (3)  
    - CLP7125 - Lifespan Psychopathology (3)  
    - CLP7623 - Ethical and Professional Issues in Clinical Psychology (3)  
    - CLP7494 - Empirically Supported Psychotherapies (3)  
    - CLP6191 - Multicultural Psychotherapy (3)  
    - CLP7942L - Supervision Practicum (1)
  - Earn at least 4 credits from the following:
    - CLP7145C - Introduction to Clinical Psychology and Psychotherapy (2)
  - CLP 7145C - 2 credit hours; taken two times at 2 credit hours each time.
  - Earn at least 3 credits from the following:
    - CLP6949 - Predoctoral Internship (1)

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2021-2022 Graduate Catalog
CLP 6949 - 1 credit hour; taken three times at 1 credit hour each time.

Earn at least 9 credits from the following:

- CLP7943C - Clinical Practicum (1 - 12)
- CLP 7943C Clinical Practicum :taken 3 times at 3 hours each time.

Elective
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  Any graduate-level course as approved by the program director.

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  PSY 7980 - Doctoral Dissertation

Qualifying and Comprehensive Doctoral Examinations
0 Total Credits

No Rules

Purpose
0 Total Credits

- The purpose of the Qualifying and Comprehensive Examination is to develop and assess the competency of professional behaviors in doctoral-level graduate students in the Clinical Psychology PhD Program that are consistent with the program's professional training goals. These goals include but are not limited to the development and demonstration of skills and abilities that enable graduating students to (a) be expertly trained, empirically oriented clinicians capable of designing, implementing and assessing programs concerned with health service and mental health delivery broadly defined and (b) formulate research questions, design research studies, and write research proposals independently. The Clinical Qualifying Examination involves a demonstration of clinical skills while the Research Comprehensive Examination involves writing of a research proposal independently.

Requirements, Rationale, and Objectives
0 Total Credits

- Successful completion of Qualifying and Comprehensive Examination requirements reflects the program's desire to ensure overall breadth of training in the field of Clinical Psychology. The two professional domains outlined above are consistent with this intent.

Admission to Candidacy
0 Total Credits

- The following are required to be admitted to Candidacy and enroll in Dissertation hours: Completion of most course work, except for Dissertation hours and Supervision Practicum. Successful completion of the Qualifying and Comprehensive Examinations. The Dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study. The American Psychological Association requires that graduate students be evaluated at least annually and provide written feedback to graduate students. Because Clinical Psychology involves the provision of mental health services to the public, special care must be taken to ensure that graduate students possess the requisite interpersonal sensitivity and skill. As a result, evaluation procedures within this track will focus not only on academic performance but also on: clinical proficiency; ethical and professional conduct; response to supervision; interpersonal behavior; and interpersonal functioning. The Clinical Psychology committee reserves the right to drop from the program graduate students who continue to exhibit serious difficulties in these behavioral domains and do not respond to feedback and efforts at remediation.

Master of Science in Clinical Psychology
0 Total Credits

- Graduate students enrolled in the Clinical Psychology PhD Program earn a Master of Science in Clinical Psychology in route to their doctorate unless they are admitted with an acceptable Master's degree. This is a nonterminal Master's degree available only to students in the Clinical Psychology PhD program.

Independent Learning
0 Total Credits

- As befits the nature of graduate training and the pursuit of a doctoral degree, graduate students in Clinical Psychology are expected to engage in independent learning throughout their graduate career. The completion of the Master's Thesis and the Doctoral Dissertation are two examples of independent learning in which all graduate students participate. In addition, depending upon their career goals, other experiences, such as directed readings or additional research projects, may be undertaken by graduate students.

Grand Total Credits: 86
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Communication MA

College
College of Sciences

Department
Nicholson School of Communication and Media

Program Website
https://communication.ucf.edu/degree/communication/

Program Handbook
Communication MA

Program Contact Information

Bridget Rubenking, PhD
Associate Professor and MA Program Coordinator
bridget.rubenking@ucf.edu
Telephone: 407-823-1711
CMB 170H

TBA
NSCM Graduate Admissions Specialist
nicholsongrad@ucf.edu
Telephone: 407-823-5595
CMB 203

Is this program available 100% online?
No
Program Description

UCF's Master of Arts in Communication prepares students for a wide range of professions in academia and the public and private sectors. This program, comprised of industry-leading scholars and professionals, provides students with the knowledge to succeed as expert communicators - all within a convenient and practical curriculum.

Housed in the Nicholson School of Communication and Media, the MA in Communication is part of UCF Downtown, a 21st-century campus with access to arts, culture, nightlife, and business. While some courses are offered online, required core courses and most electives are offered in a face-to-face or mixed-mode formats, typically Monday - Thursday evenings at UCF Downtown.

The MA degree program in Communication is a four-semester program for full-time students. Part-time students make take up to seven years to complete the program. Both thesis and non-thesis options are offered and both consist of a minimum of 33 semester hours of work.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants should adhere to the application requirements outlined below. An application will not be reviewed for admission until it is verified as complete by the UCF College of Graduate Studies.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- Official transcripts
- The GRE is not required for admission to this program.
- Résumé or CV
- Statement of Purpose
- Two letters of recommendation
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

The following information is required for those who wish to be considered for funding initiated by the Nicholson School of Communication and Media, but is recommended for all applicants:

- Additional letter of recommendation (total of three)

Graduate Application Deadlines

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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete all of the following
  - All required courses must be completed with a grade of B- or higher.
  - Complete the following:
    - COM5312 - Introduction of Communication Research (3)
    - COM6008 - Proseminar in Communication (3)
    - COM6401 - Communication Theory (3)

Research Methods Concentration
3 Total Credits

- Complete at least 1 of the following:
  - COM6303 - Qualitative Research Methods in Communication (3)
  - COM6304 - Quantitative Research Methods in Communication (3)

Elective Courses
18 Total Credits

- Complete all of the following
  - In addition to the courses listed below, special topics courses, study abroad courses, independent study, directed research, internship, and graduate-level courses taken outside the Nicholson School of Communication and Media may be counted as restricted electives, pending approval by the program director, for up to 6 credit hours total.
  - Earn at least 18 credits from the following:
    - ADV6209 - Advertising and Society (3)
    - COM5932 - Topics in Communication Theory and Research (3)
    - COM6046 - Interpersonal Communication (3)
    - COM6047 - Interpersonal Support in the Workplace (3)
    - COM6048 - Communication in Close Relationships (3)
    - COM6121 - Communication Management (3)
    - COM6145 - Organizational Communication (3)
    - COM6425 - Symbolism in Terrorism (3)
    - COM6463 - Studies in Intercultural Communication (3)
    - COM6463 - Studies in Persuasion (3)
    - COM6467 - Studies in Persuasion (3)
    - COM6468 - Communication and Conflict (3)
    - COM6535 - Communication Campaigns (3)
    - MMC6567 - New Media (3)
    - MMC6600 - Media Effects and Audience Analysis (3)
    - Course Not Found
    - MMC6612 - Communication and Government (3)
    - MMC6735 - Social Media as Mass Communication (3)
    - PUR6005 - Theories of Public Relations (3)
    - PUR6215 - Communicating Corporate Social Responsibility (3)
Thesis/Nonthesis Options
6 Total Credits

- Complete all of the following
  Thesis Option
  - Earn at least 3 credits from the following types of courses:
    COM 6971 Thesis (minimum of 3 credit hours, can be taken individually) The thesis option requires a minimum of 3 hours of thesis credit and a successful defense of a thesis. Students may enroll in thesis hours after they have successfully completed the three core courses and their thesis committee has been approved by the department, college, and Graduate Studies. The student's permanent faculty adviser will chair their committee, which will also include one additional graduate faculty member in the Nicholson School of Communication and Media. One additional member, who is also a graduate faculty member, may be added from outside the NSCM. All members of the thesis committee are selected in consultation with the student's permanent faculty adviser. When a topic has been selected, students, in conjunction with their permanent adviser, will develop a thesis proposal. Copies of the proposal will be routed to members of their thesis committee and a proposal hearing scheduled. All student must pass a proposal hearing as well as a final oral defense of their thesis. Students who elect to write a thesis should become familiar with the university's requirements and deadlines for organizing and submitting the thesis.

Nonthesis Options
- Complete 1 of the following

  Nonthesis Option 1: Comprehensive Examination
  - The nonthesis comprehensive examination option is a four-examination requirement that assesses students' coursework competency. Students who choose the comprehensive examination option must take one additional elective course (three credit hours) and successfully complete the comprehensive examinations. Upon completing their 18th hour in the program, students must select a permanent advisor and form a comprehensive exam committee. The examinations will cover research methods, communication theory, and elective areas selected together by the student with his or her comprehensive examination committee. In order to fulfill the comprehensive exam requirement, the student must earn a passing grade on all exams. If a student fails to pass any of the comprehensive exam area questions, they are allowed two additional attempts to satisfy the comprehensive exam requirement. Once an exam in an area is passed, the student does not have to sit for that exam area again. Students are allowed three attempts to satisfy the comprehensive exam requirement. Students are expected to refer to the Communication MA Graduate Program Handbook for the comprehensive examination protocol.
  - Earn at least 3 credits from the following types of courses:
    Additional Elective

  Nonthesis Option 2: Applied Professional Project
  - The nonthesis applied project option requires students to demonstrate their ability to apply the knowledge and skills learned in the graduate program to a problem/topic that integrates the range of communication theory, practice, and research presented throughout the program. Upon completing their 18th hours in the program, each student must select a permanent advisor and form an applied project committee. The student will work directly with a faculty adviser to develop a project and the adviser will supervise the project. Students and faculty advisors are encouraged to meet with committee members at the proposal and final defense stages. The grading system for the project is Pass/No Pass. Students who receive a grade of Pass will be allowed to graduate assuming all other requirements are met.
  - Earn at least 3 credits from the following:

Equipment Fee
0 Total Credits
- Full-time students in the Communication MA program pay a $16 equipment fee each semester that they are enrolled. Part-time students pay $8 per semester.

Independent Learning
0 Total Credits
- Students who elect the thesis option engage in independent learning through the design and implementation of original research in the thesis process. Students who pursue the comprehensive examination option experience independent learning through their individual preparation for each of four comprehensive examinations. Students who pursue the applied project option engage in applied, original communication research in an applied setting. All students engage in independent learning in every Communication core course. A research paper or project is required in each of these classes. The papers and projects provide independent learning by requiring students to design and carry out research projects and develop analytical papers, some of which are submitted to conferences and/or journals for peer review. Internships and independent studies are also common opportunities for independent learning in the Communication MA program.

2021-2022 Graduate Catalog
Grand Total Credits: 36

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

The majority of financial assistance provided by the Nicholson School of Communication and Media graduate program is granted through assistantships. The number of total Assistantships at the Master’s level is limited, and varies year-to-year. Preference will be given to applicants who complete their application for admission prior to the January 15th priority deadline. It is the applicants’ responsibility to ensure they have a complete application on file by the priority deadline. Applicants may indicate their interest in an assistantship in the application and follow up with the admission specialist or program coordinator. Students on assistantship are paid a stipend, receive tuition support, and are eligible for health insurance. For general information regarding assistantships at UCF, refer to the Assistantships (www.students.graduate.ucf.edu/assistantships) section of the College of Graduate Studies website.

The Nicholson School of Communication and Media offers primarily two types of assistantships:

- Graduate Teaching Assistants are assigned to work with faculty members and assist them with their teaching responsibilities. This includes assisting with large lecture classes, grading exams, compiling information for lectures, and working with students, as instructed, to help keep a class operating smoothly.
- Graduate Teaching Associates are graduate students who, after completing eighteen hours of their graduate program of study and the required university and department training, are assigned to teach their own sections of undergraduate courses. Typically, Graduate Teaching Associates teach SPC 1608 (Fundamentals of Oral Communication) or SPC 1603 (Fundamentals of Technical Presentation).

Conservation Biology Graduate Certificate

College
College of Sciences

Department
Department of Biology

Program Website
http://biology.cos.ucf.edu/graduate_index.php

Program Contact Information

Kate Mansfield PhD
Assistant Professor
kate.mansfield@ucf.edu
Telephone: 407-823-4431
BIO 402B

Is this program available 100% online?
No
**Program Description**

**This certificate is no longer accepting applications effective Fall 2016.**

The Graduate Certificate in Conservation Biology provides students with an excellent opportunity for cross-discipline training in conservation theory in a classroom setting with fieldwork in the laboratory portions of Biology.

The Graduate Certificate in Conservation Biology emphasizes basic and applied conservation biology. The certificate offers an excellent opportunity for cross-discipline training that provides conservation theory in a classroom setting and valuable field work in the laboratory portions of the Biology courses. The Department of Biology provides basic courses on campus, while scientists at Walt Disney World's Animal Kingdom offer applied courses on Disney property. Practical experience dealing with small animal populations is provided within Disney's unique zoological setting.

The Conservation Biology certificate requires four graduate courses (12 credit hours) in conservation study.

**Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree**

**Application Requirements**

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

**Graduate School Contact**

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

**Degree Requirements**

**Required Courses**

12 Total Credits

- Earn at least 12 credits from the following types of courses:
  - Students should take two courses from Group A, one course from Group B, and the course from Group C. Group A BSC 5332 - Invasion Biology 3 Credit Hours PCB 5045 - Conservation Biology 4 Credit Hours PCB 5935 - Population Genetics 3 Credit Hours PCB 6053C - Restoration Ecology 4 Credit Hours PCB 6328C - Landscape Ecology 4 Credit Hours PCB 6480C - Quantitative Conservation Biology 4 Credit Hours PCB 6556 - Conservation Genetics 3 Credit Hours Group B BOT 5006 - Entomology 4 Credit Hours PCB 5326C - Ecosystems of Florida 5 Credit Hours PCB 5435C - Marine Ecology of Florida 4 Credit Hours PCB 6035C - Wetland Ecology 4 Credit Hours ZOO 5456C - Ichthyology 4 Credit Hours ZOO 5463C - Herpetology 4 Credit Hours ZOO 5475L - Field Ornithology 3 Credit Hours ZOO 5486 - Mammalogy 4 Credit Hours Group C PAZ 5235 - Zoo and Aquarium Biology Management 3 Credit Hours

**Independent Learning**

0 Total Credits

- Graduate students enrolled in the Graduate Certificate in Conservation Biology are expected to engage in independent learning throughout their enrollment. Independent learning is a key component of all of the courses approved for inclusion in this certificate, where emphasis is placed on the development of analytical skills and critical thinking. In addition, depending upon their career goals, other experiences such as directed readings, additional research projects, or internships may be undertaken by the students.

Grand Total Credits: **12**

**Corporate Communication Graduate Certificate**

2021-2022 Graduate Catalog
College
College of Sciences

Department
Nicholson School of Communication and Media

Program Website
https://communication.ucf.edu/degree/corporate-communication/

Program Contact Information
Bridget Rubenking, PhD
Associate Professor and Program Coordinator
bridget.rubenking@ucf.edu
Telephone: 407-823-1711
CMB 170H

TBA
NSCM Graduate Student Services Coordinator
nicholsongrad@ucf.edu
Telephone: 407-823-5595
CMB 203

Is this program available 100% online?
No

Program Description
The Graduate Certificate in Corporate Communication offers industry-relevant training in creating, managing, and communicating corporate reputation. Coursework focuses on theory, research, and practical applications of principles related to corporate communication. The program is composed of three core graduate courses and three elective courses, totaling 18 credit hours, suitable for professionals working in the industry.

Housed in the Nicholson School of Communication and Media, the graduate Corporate Communication Certificate is part of UCF Downtown, a 21st-century campus with access to arts, culture, nightlife, and business. While some courses are offered online, required core courses and most electives are offered in a face-to-face or mixed-mode formats, typically Monday-Thursday evenings at UCF Downtown.

The program is composed of three required graduate courses and three elective courses that can be incorporated into a master's program of study in Communication or taken as an add-on to another graduate degree. The required and elective courses are drawn from a limited list of courses that reflect current professional development needs for corporate communication. Students must enroll in COM 6008 Pro-Seminar in Communication in their first fall semester.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants to this program must provide:

- Official Transcripts
- Statement of Purpose
- CV or Resume

The Corporate Communication Certificate Program does not admit students in the summer semester. Admission to and successful completion of the Corporate Communication Certificate Program does not guarantee admission to the Communication MA program as additional requirements exist for the master's program.

Graduate Application Deadlines

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<th>Corporate Communication Graduate Certificate</th>
<th>*Fall Priority</th>
<th>Fall</th>
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Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete the following:
  - COM6008 - Proseminar in Communication (3)
  - PUR6005 - Theories of Public Relations (3)
  - PUR6403 - Crisis Public Relations (3)

Electives
9 Total Credits

- Complete at least 3 of the following:
  - ADV6209 - Advertising and Society (3)
  - COM5312 - Introduction of Communication Research (3)
  - COM5932 - Topics in Communication Theory and Research (3)
  - COM6047 - Interpersonal Support in the Workplace (3)
  - COM6121 - Communication Management (3)
  - COM6145 - Organizational Communication (3)
  - COM6467 - Studies in Persuasion (3)
  - COM6468 - Communication and Conflict (3)
  - COM6525 - Communication Strategy and Planning (3)
  - MMC6202 - Legal and Ethical Issues for Communication (3)
  - Course Not Found
  - MMC6307 - International Communication (3)
  - Course Not Found
  - MMC6567 - New Media (3)
  - MMC6600 - Media Effects and Audience Analysis (3)
  - MMC6735 - Social Media as Mass Communication (3)
  - PUR6215 - Communicating Corporate Social Responsibility (3)
  - PUR6405 - Communication and Public Relations in Politics and Government (3)

Grand Total Credits: 18

Data Modeling Graduate Certificate

College

College of Sciences

Department

Department of Mathematics

Program Website

http://sciences.ucf.edu/math/graduate
Is this program available 100% online?
Yes

UCF Online

Please Note: Data Modeling Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Mathematical Science Graduate Certificate on Data Modeling is designed for students to gain knowledge of mathematical modeling and analytics techniques for data extraction, and to prepare their career on data analyst and data architect.

The mathematical science graduate certificate on data modeling requires taking 4 graduate courses (12 credit hours) with letter grade B- or higher, including 9 credit hours of required courses and 3 credit hours of elective courses.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. No GRE is required. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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<th>Data Modeling Graduate Certificate</th>
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Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
9 Total Credits

- Complete at least 3 of the following:
  - MAP6195 - Mathematical Foundations for Massive Data Modeling and Analysis (3)
  - MAT5712 - Scientific Computing (3)
  - MAP5117 - Mathematical Modeling (3)
  - MAP6168 - Mathematical Modeling II (3)
  - MAP5336 - Ordinary Differential Equations and Applications (3)

Elective Courses
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  Students should take one additional core, or one graduate-level course on mathematical data modeling offered across the campus with the prior approval of the program director.

Grand Total Credits: 12

Digital Media MA

College
College of Sciences

Department
Nicholson School of Communication and Media

Program Website
https://communication.ucf.edu/degree/digital-media-ma/

Program Handbook
Digital Media MA

Program Contact Information

NSCM Graduate Student Services Coordinator
nicholsongrad@ucf.edu
Telephone: 407-823-5595
Full-time Location: CMB 203, UCF Downtown
Part-time Location: NSCM 238, UCF Main Campus

Is this program available 100% online?
No
**Program Description**

The MA program in Digital Media engages students in theoretical frameworks, methods, and critical media practice related to computational, interactive media. Through rigorous creative and research projects, the MA prepares students for continued study in a PhD program or employment within the industry. Working closely with an innovative faculty and technology partnerships in downtown Orlando, students will employ emerging technologies to communicate interactive narratives and experiences while also producing cutting-edge research in interactive media.

The Digital Media MA combines theory and practice to train the next generation of interactive media scholars and practitioners. Part of the first wave of UCF's state-of-the-art downtown campus, students in this program have unique opportunities to participate in socially impactful research and artistic production. In the first year, students gain an introduction to aesthetic, theoretical, programming, and design approaches to interactive media, while gaining valuable foundations in research and storytelling. In the second year, students either pursue a thesis or studio production path, while learning about contemporary topics and emerging Artificial Intelligence (AI) research and design. Throughout the program, students are encouraged to create portfolio-ready pieces and/or present their work at conferences, thus preparing them for future professional, artistic, and scholarly success at the forefront of interactive media.

The program focuses on the following areas:

- **Theory and Practice:** The program trains students to pair theory and practice regardless of the path they choose through the program. Students will learn to develop theoretically sophisticated creative works and to pair creativity with research. This is accomplished by providing students with a solid foundation in aesthetic, design, programming, and theoretical approaches.

- **Narrative and Experience Design:** The program also emphasizes interactive storytelling and an understanding of how to design compelling experiences specifically for interactive media. This is accomplished through coursework on these subjects, and the time allotted in the program's plan of study for students to develop in-depth creative and research projects that put the concepts learned in coursework into play.

- **Social Impact:** The MA in Digital Media also takes advantage of the creative, research, and business opportunities available through the program's downtown Orlando location to provide students with a range of real-world, socially impactful research and creative experiences. Course projects and students' own creative and research work benefit from the social, cultural, and economic context of a thriving downtown sector.

- **Professional and Scholarly Outcomes:** The MA program offers two equally in-depth and rigorous tracks—the Thesis or Studio Production paths. The required coursework provides the foundational skills and knowledge needed for students to create an exhibition or publication-ready projects.

**Total Credit Hours Required:** 36 Credit Hours Minimum beyond the Bachelor's Degree

**Program Prerequisites**

Desirable background skills for this degree include familiarity with computer coding and/or digital design, but these are not required as coursework addresses these areas.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- A written statement (1 - 2 pages) describing the student's personal goals, objectives, and research interests in seeking the degree.
- Three letters of recommendation from former professors or employers who can address applicant's ability to undertake graduate-level courses.
- For students intending to pursue the studio track, a link to a web portfolio of 2 - 5 substantial creative and/or technical works.
- For students intending to pursue the thesis track, writing sample(s) totaling 10 - 15 pages.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Desirable background skills for this degree include familiarity with computer coding and/or digital design, but these are not required as coursework addresses these areas.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, the applicant's potential for completing the degree, and the current applicant pool.

**Graduate Application Deadlines**

<table>
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<th>Fall</th>
<th>Spring</th>
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<td>Domestic Applicants</td>
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<td>Jan 15</td>
<td>Jan 15</td>
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</tbody>
</table>
**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*

Applications will be reviewed at the end of each month, with the last review after the July 1st deadline.

**Graduate School Contact**

**Anthony Tufano**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**  
GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233
Degree Requirements

Required Courses
24 Total Credits

- Complete the following:
  - DIG5487 - Media Aesthetics (3)
  - DIG5508 - Programming for Digital Media (3)
  - DIG5831 - Computational Media (3)
  - DIG6136 - Design for Interactive Media (3)
  - DIG6551 - Theory and Practice of Interactive Storytelling (3)
  - DIG6647 - History and Theory of Dynamic Media (3)
  - DIG6817 - Contemporary Topics in Interactive Media (3)
  - DIG6817 - Contemporary Topics in Interactive Media (3)

Thesis/Non-Thesis Option
12 Total Credits

- Complete 1 of the following
  - Thesis Option: 6 Credit Hours of Thesis and 6 Credit Hours of Electives
  - Complete all of the following
    - Students choosing the Thesis option will take all required courses, along with two electives (one in Fall and one in Spring of their second year in a typical program of study). The electives may come from any COM, DIG, or FIL prefix or other as approved by the graduate coordinator. Many graduate-level courses in the College of Arts and Humanities can be used as electives, based on an adviser-approved plan of study. These courses must be selected to ensure that at least one-half of the courses in the student's plan of study are taken at the 6000 level. In addition, students will take 6 hours of DIG 6971: Thesis credit (3 in Fall and 3 in Spring in a typical program of study). Each candidate for the Master of Arts submits a thesis prospectus and preliminary bibliography on a topic selected in consultation with the adviser. The formal thesis is initiated by the preparation of a proposal that meets both departmental and university requirements for the thesis. Prior to enrollment into thesis credit hours, the adviser, in consultation with the student, designates a Thesis Committee to be further approved by the College Graduate of Studies. This committee is chaired by the adviser and includes two or more additional faculty members from the Nicholson School of Communication and Media. The members of the student’s thesis committee judge the proposal as the preliminary step to beginning the thesis. This committee must approve the Thesis Proposal before academic credit can accrue. The thesis is a formal written document. The introduction cites similar, related, and antecedent work. The body explains the purposes of the project, the method of its production, and any evaluation that was performed. The conclusion includes plans for future work. The thesis also includes an archival copy of the resulting creative product. Both the thesis and the creative product must be delivered in digital form, acceptable by the UCF library according to its standards for digital dissertations and theses.
    - Earn at least 6 credits from the following:
      - DIG6971 - Thesis (1 - 99)
    - Earn at least 6 credits from the following types of courses:
      - Electives
      - Thesis Defense
    - In addition to a written thesis, the final step in completing the thesis requirement is an oral defense before the thesis committee. Candidates must present their creative or research work and explain its creation in an oral defense. These presentations are made to the student's committee in a public meeting that other faculty and students may attend.

- Studio Production, Non-Thesis Option
  - Complete all of the following
    - Students selecting the Studio Production option complete 6 required credit hours: DIG 6571: Studio 1 (3 credit hours) and DIG 6909: Research Report (3 credit hours), and an additional 6 credit hours of electives. The electives may come from any COM, DIG, or FIL prefix or other as approved by the graduate coordinator. Many graduate-level courses in the College of Arts and Humanities can be used as electives, based on an adviser-approved plan of study. These courses must be selected to ensure that at least one-half of the courses in the student's plan of study are taken at the 6000 level.
    - Complete the following:
      - DIG6524 - Studio 1 (3)
    - Earn at least 3 credits from the following types of courses:
      - DIG 6909 - Research Report
    - Earn at least 6 credits from the following types of courses:
      - Electives

Grand Total Credits: 36
**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Millican Hall 120  
Telephone: 407-823-2827  
Appointment Line: 407-823-5285  
Fax: 407-823-5241  
finaid@ucf.edu  
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127  
gradfellowship@ucf.edu  
https://funding.graduate.ucf.edu

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**Feature Film Production MFA**

**College**

College of Sciences

**Department**

Nicholson School of Communication and Media

**Program Website**

https://communication.ucf.edu/degree/film-production-mfa/

**Program Handbook**

Feature Film Production MFA

**Program Contact Information**

**NSCM Graduate Student Services Coordinator**

nicholsongrad@ucf.edu  
Telephone: 407-823-5595  
Full-time Location: CMB 203, UCF Downtown  
Part-time Location: NSCM 238, UCF Main Campus

**Is this program available 100% online?**

No
Program Description

The Feature Film Production MFA is a terminal degree, the highest degree awarded to filmmakers or film artists. It is a highly selective and rigorous professional film production program for visual artists and film practitioners who demonstrate exceptional artistic and intellectual prowess, evidence of significant professional promise and a commitment to the expressive potential of digital filmmaking and the exploration of non-traditional modes of distribution. The Feature Film Production MFA produces graduates with mastery of storytelling through the digital medium as it encourages the candidate to find his or her personal style. Entrepreneurial in spirit, the program emphasizes story, performance, aesthetic choice, business, and creative thinking. When participation is committed and complete, the program develops graduates who can compete in the worlds of national and international independent filmmaking.

Students will pursue a modality - narrative, documentary, or experimental - for their thesis film, or body of work, during their first two semesters in the program. All MFA candidates must take the core required courses but will choose electives that best match their modalities and interests. Upon completion of the degree, each student will have produced a microbudget digital feature film or equivalent body of work that meets standards outlined in the Program Graduate Handbook. Students will also have prepared a marketing strategy for its distribution and exhibition. Graduates in this program are responsible to funding their own thesis projects, including fundraising and soliciting investors where needed. Historically, graduates have produced feature films within the budget range of 5-25K. Budgetary needs can vary greatly depending on the scope and modality of the thesis. Consulting with the thesis committee regarding the appropriate budgetary scale is advised for all students. Budgets exceeding 50K are strongly discouraged.

We welcome innovative approaches within the digital cinema paradigm that reimagine how new technologies can create alternative performances to exploit the tension between narrative and experimental storytelling, creating a new agency for actors and new expectations for audiences.

Program Prerequisites

A BA or BFA in film production is preferred, however, degrees in the following areas are acceptable if accompanied by a strong video portfolio:

- Animation
- Art
- Cinema Studies
- Communication
- English/Creative Writing
- Game Design
- Graphic Design
- Illustration
- Journalism
- Photography
- Radio/TV

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline. Preference will be given to applicants who can demonstrate a strong production background by including evidence they have been the creative leader of completed short films.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript from each college/university attended.
- A BA or BFA in film production is preferred, however, degrees in the following areas are acceptable if accompanied by a strong video portfolio:
  - Animation
  - Art
  - Cinema Studies
  - Communication
  - English/Creative Writing
  - Game Design
  - Graphic Design
  - Illustration
  - Journalism
  - Photography
  - Radio/TV
- The GRE is not required for admission to this program.
- Personal Statement: In 750-words or less, provide an Artist’s Statement that reflects your vision for a feature film, or equivalent body of cinematic work, that explains your preliminary plans for raising funds to support your microbudget production. Please describe how the critical thinking and technical expertise acquired in our program will support the successful execution of your vision.
- Portfolio: Submit 1 - 3 complete short films (each being 15 minutes or less) that the applicant has participated in as a principle creative collaborator (i.e. as writer, director, producer, director of photography, production designer, and/or editor).
  - Provide a document with links to YouTube, Vimeo, or similar platform.
  - All submitted online links to film samples must include:
    - The film's title
    - The applicant's role in the making of the film
    - The date the film was completed
Other materials in the portfolio may include, but are not limited to:
- screenwriting samples, photography, documentation of work in other media, critical media analysis, and any other materials which reflect the applicant's experience with moving image scholarship and practice
- Writing Sample: Please submit one of the following writing samples for the film modality you wish to complete. Admitted students may change modalities ONLY during their first two semesters of the program.
  - Narrative Feature Film:
    - Provide a detailed written treatment for a proposed feature film.
    - Provide a script sample of another work that he/she has written.
      - The applicant does not have to be the author of the script that he/she plans to direct as the thesis film if accepted into the program. Students may use a script that is in the public domain and direct his/her interpretation of it, or someone else may write a script that the student will direct.
  - Documentary Feature Film:
    - Provide a detailed written treatment for a proposed feature documentary.
    - The treatment should define the subject of the film and how it addresses the following items and your professional goals:
      - Rationale/Thesis
      - Style
      - Content
      - Approach
  - Experimental Feature Film, Series of Short Films, or Body of Work:
    - The detailed written treatment/proposal should describe the subject of the film and express the filmmaker's intentions regarding approach and style. The length of the treatment/proposal should reflect the scope of the project.
      - Rationale/Thesis
        - Address why this topic was selected and why this film should be made. This portion of the treatment/proposal should demonstrate the filmmaker's knowledge and sense of context for the significance of the work. It can also state a "challenge" or question - one the project will address, explore, or attempt to answer.
      - Approach
        - The filmmaker should express the style in which the film(s) or project will be made and how this style will enhance and express the nature of the subject and the meanings, thoughts, or impressions the filmmaker intends to reveal. The filmmaker may choose to describe specific techniques with shooting on film or video, or experimenting with other forms of cinematic digital media, that will form the basis of inquiry or aesthetic and technical exploration within the thesis project.
  - Résumé
  - Provide two letters of recommendation, with at least one from an industry professional or college/university professor.
  - Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Please submit all materials, with the exception of official transcripts, electronically as part of the online application. Applicants may be asked to participate in an admissions interview.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match of this program, and faculty expertise to the applicant's career/academic goals, the applicant's potential for completing the degree, and the current applicant pool. Applicants are encouraged to apply as early as possible due to limited cohort size. There is no guarantee qualified applicants will be admitted after the cohort has been filled.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Feature Film Production</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Mike Burke
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
30 Total Credits

- Complete all of the following
  - Complete the following:
    - FIL5406 - Theories of Film Production (3)
    - FIL5800 - Research Methods in Film and Digital Media (3)
    - FIL6454 - Microbudget Production Design (3)
    - FIL6596 - Advanced Directing Workshop for Film and Digital Media (3)
    - FIL6619 - Guerilla Marketing and Models of Distribution (3)
    - FIL6644 - Microbudget Pre-Production (3)
    - FIL6649 - Microbudget Post-Production (3)
    - FIL6673 - Arts and Media Entrepreneurship (3)
  - Earn at least 6 credits from the following:
    - FIL5924 - Graduate Seminar (1)
- Note: FIL 5924 Graduate Seminar is 1 Credit Hour to be taken each semester for a total of 6 credits.

Internal Elective Courses
9 Total Credits

- Complete all of the following
  - Students select a minimum of 9 credit hours of internal electives that reflect their mode of filmmaking interest (narrative, documentary, or experimental). More than 9 credit hours of internal electives may be taken to substitute for external electives if approved by the graduate program coordinator. Students in other graduate programs are required to receive instructor consent before enrolling.
  - Complete at least 3 of the following:
    - FIL5141C - Feature/TV Writing (3)
    - FIL5371C - Documentary Production (3)
    - FIL5419 - Developing the Film Screenplay (3)
    - FIL5419 - Developing the Film Screenplay (3)
    - FIL6146 - Screenplay Refinement (3)
- Note: FIL 5907 Independent Study and FIL 5917/5918 Directed Research may be taken for a total of no more than six credit hours each.

External Electives
12 Total Credits

- Complete all of the following
  - Students select a minimum of 12 credit hours of external electives that align with their particular interests, outside the MFA in Feature Film Production. Choice of external electives should be made after discussion with the thesis advisor or graduate coordinator. Other electives related to the thesis topic may be approved by the graduate coordinator. Not all of these courses are offered every term, prerequisites and consent of instructor may be required.
  - Complete at least 4 of the following:
    - ADV6209 - Advertising and Society (3)
    - ARH5897 - Advanced Seminar in Art History (3)
    - ART5280 - Serial Content (3)
    - ART6683 - Time Arts (3)
    - ART6911C - Studio Concentration (3)
    - COM5932 - Topics in Communication Theory and Research (3)
    - COM6046 - Interpersonal Communication (3)
Course Not Found

FIL6971 - Thesis (1 - 99)

Before undertaking the thesis project, candidates must meet with the thesis advisory committee to submit and discuss the proposed project and obtain the committee's approval. The thesis requires intensive applied learning in order to complete a feature-length project and/or body of work. The student cannot enroll in thesis hours until the thesis advisory committee has been selected and approved. Once a student has begun to take thesis hours, they must enroll in at least one thesis hour for each remaining term until graduation. Students may spread out thesis hours any way they wish but are advised to follow recommendations in the program handbook. The thesis project has a strong research component both in the initial development phase and in the creation of the distribution and marketing plan for the project. In addition to creating the feature film or body of work, the student must write an accompanying thesis paper that meets all university requirements (see ETD Requirements). The final stage of the curriculum serves as a bridge to the professional world and supports the entrepreneurial philosophy of the program. The thesis project must be reviewed by the faculty adviser throughout the production process, and meet agreed upon criteria within a stated time frame. Once the thesis project is completed, candidates must have a screening or exhibition of the work and meet with the thesis advisory committee for final approval and oral defense.

Equipment Fee

Students in the Feature Film Production MFA program pay a $90 equipment fee each semester that they are enrolled. Courses containing a production element may charge an additional materials and equipment fee.

Grand Total Credits: 63

Financial Information

Graduate students may receive financial assistance through a limited number of competitive fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Financial Mathematics Graduate Certificate

College

College of Sciences

Department

Department of Mathematics

Program Website

http://sciences.ucf.edu/math/graduate

Program Contact Information

Qiyu Sun
Professor
qiyu.sun@ucf.edu
Telephone: 407-823-4839
PO Box 161364

Is this program available 100% online?

Yes

UCF Online

Please Note: Financial Mathematics Graduate Certificate may be completed fully online although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Mathematical Science Graduate Certificate on Financial Mathematics is designed for students to gain knowledge of mathematical finance and to pursue careers in financial services industry and regulatory agency.

The mathematical science graduate certificate on financial mathematics requires taking 4 graduate courses (12 credit hours), including 9 credit hours of required courses and 3 credit hours of elective courses.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor’s Degree

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

<table>
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<tr>
<th>Financial Mathematics Graduate Certificate</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits

- Complete at least 3 of the following:
  - MAP5641 - Financial Mathematics I (3)
  - MAP6646 - Risk Management for Financial Mathematics (3)
  - MAP5612 - Computational Methods for Financial Mathematics I (3)
  - MAP5606 - Differential Equations for Financial Mathematics (3)
  - MAP6195 - Mathematical Foundations for Massive Data Modeling and Analysis (3)

Elective Courses
3 Total Credits

- Complete all of the following
  - Students should take one additional core course, or one of the following four courses offered by the department of mathematics or one graduate-level course related to mathematical finance offered across the campus with the prior approval of the program director.
  - Earn at least 3 credits from the following:
    - MAP6642 - Financial Mathematics II (3)
    - MAP6616 - Computational Methods for Financial Mathematics II (3)
    - MAP5931 - Proseminar for Financial Mathematics (1)
    - MAP6207 - Optimization Theory (3)

Grand Total Credits: **12**

Forensic Science MS

College
College of Sciences

Department
Department of Chemistry

Program Website
http://chemistry.cos.ucf.edu/

Program Handbook
Forensic Science MS
Is this program available 100% online?

Yes

UCF Online

Please note: Forensic Science MS may be completed fully online by domestic students, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in the in-person version of this program and a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.


Program Description

The Master of Science in Forensic Science program is designed to service the needs of both practicing professionals and full-time students who desire an advanced program of study in forensic science. The program is comprised of three concentrations: Forensic Analysis, Forensic Biochemistry and Forensic Professional. The Forensic Biochemistry and Forensic Analysis concentrations require the student to perform original research and defend a written thesis. The Forensic Professional concentration is a nonthesis option comprised of course work and an independent study capstone project.

Forensic Science is a highly interdisciplinary science, as reflected in the following programs of study. The interdisciplinary nature of the program makes it imperative that students seek advising from faculty members on the appropriateness of this program towards their future career as well as the content of courses to ensure that they have the appropriate background to master the course content.

Thesis Options

The grounding in scientific research methodology provided by the thesis requirement is a central focus of the thesis-based concentrations. The Forensic Analysis and Biochemistry concentrations are comprised of 32 credit hours of study beyond the BS degree. Students will conduct research either on site or at the professional laboratories where they work. In either case, a member of the UCF Forensic Science faculty will act as research adviser and approve the research topic. This research culminates in the writing and presentation of the thesis.

The student's research adviser will select the thesis examination committee, consisting of two UCF faculty members and at least one other acknowledged forensic expert in the field. The student will present his/her thesis for examination by the committee. The thesis must be judged worthy of publication by the review committee and may not be submitted for examination until approved. For students choosing to conduct research at non-UCF sites, the thesis adviser may visit the student's laboratory where the research is to be performed, before the research begins and on a regular basis until the work is complete.

- **Forensic Analysis Concentration:** The Forensic Analysis concentration emphasizes the application of modern chromatographic, spectroscopic and micro-analytical techniques to problems in forensic science.
- **Forensic Biochemistry Concentration:** The Forensic Biochemistry concentration has a strong biochemistry-DNA focus to serve the needs of supervisory personnel in DNA sections of crime laboratories. National DNA standards mandate that such personnel have advanced degrees.

Nonthesis Option

The nonthesis concentration is specifically designed for the forensic analyst who currently holds employment in an operational forensic laboratory or has previously worked for a minimum of three years in an operational forensic laboratory. Applicants who do not meet these criteria must apply for one of the thesis-based concentrations. This specialized program option is not designed for international applicants.

- **Forensic Professional Concentration:** The Forensic Professional concentration is comprised of 34 credit hours of study beyond the bachelor of science degree but does not require an original laboratory-based research project. The Forensic Professional concentration culminates in a one-credit-hour independent study capstone project performed under the direction of one of the faculty members in the program.

Program Overview

The Forensic Science MS degree is comprised of 32 or 34 credit hours of study beyond the BS degree with an intensive specialization in one of three concentrations: Forensic Analysis, Forensic Biochemistry or Forensic Professional. Full-time students should complete the degree in two years of continuous full-time study, while part-time students will generally finish the degree in four years.

The program in **Forensic Analysis** and **Forensic Biochemistry** is research-based and requires original and independent research resulting in a written thesis to be defended before a committee consisting of two UCF graduate faculty members and at least one other acknowledged forensic expert in the field. These concentrations require 32 credit hours, including 9 credit hours of required courses, 15 credit hours of concentration courses, and 8 credit hours of Thesis.

The program in **Forensic Professional** requires 34 credit hours, including 9 hours of required courses and 24 hours of elective courses and one credit hour of independent study as the capstone experience. This concentration does not require an original laboratory-based research project. Students not in residence at UCF should consult the catalog for courses with online offerings.

Students with undergraduate degrees in chemistry, biochemistry, biology, forensic science, statistics and physics are encouraged to apply. Students applying to this program with a forensic science undergraduate degree, please be aware that this program is designed for students interested in pursuing a career in forensic chemistry, forensic biology, forensic biochemistry applications.

Students interested in pursuing careers in any of the following forensic disciplines should apply to a more appropriate program:

- Forensic Psychology, you should apply to a graduate Psychology program.
- Forensic Anthropology, you should apply to a graduate Anthropology program.
- Crime Scene Investigation, you should apply to a graduate Criminal Justice program.
- Forensic Pathology or Medical Examination, you should apply to a medical school.
- Forensic Engineering, you should apply to a graduate Engineering program.

Total Credit Hours Required: 32-34 Credit Hours Minimum beyond the Bachelor's Degree
Program Prerequisites

A bachelor's degree in Chemistry, Biochemistry, Molecular Biology, Physics, Statistics, Forensic Science, or another physical science, based on at least 30 hours of college-level science subjects, which will provide the background required to be successful in this program.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A bachelor's in Forensic Science or another physical science, based on at least 30 hours of college-level science subjects, that provides the background required to be successful in the proposed program. Acceptable non-Forensic Science BS degrees may include Chemistry, Molecular Biology, Physics and Statistics.
- Three letters of recommendation. If the applicant is employed in a forensic laboratory and wishes to continue working in that laboratory while a distance learner in the Forensic Science MS program, one letter should come from his/her supervisor and should express their willingness to allow the student to use the laboratory instrumentation for their thesis research. Otherwise, the student will be unable to complete the research component of the degree.
- Short (one-page) statement describing why the applicant wants to pursue an advanced degree in Forensic Science which also details the area of Forensic Science that most interests them.

The Forensic Science Graduate Committee will evaluate the background of potential students applying for admission into the program.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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<th>Forensic Science MS</th>
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<th>Spring</th>
<th>Summer</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 523

Degree Requirements

Required Courses

9 Total Credits

- Complete the following:
  - CHSS504 - Topics in Forensic Science (3)
  - CHSS596 - The Forensic Expert in the Courtroom (3)
CHS6513 - Quality Assurance for Forensic Scientists (3)

Thesis/Nonthesis Option
23 - 25 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Complete all of the following
      - Earn at least 8 credits from the following types of courses:
        CHS 6971 Thesis The Forensic Analysis and Forensic Biochemistry concentrations require the student to conduct original research and successfully defend a written thesis.
- Concentrations
  - Complete 1 of the following
    - Forensic Analysis Concentration:
      - Earn at least 15 credits from the following:
        - STA5206 - Statistical Analysis (3)
        - CHM5235 - Applied Molecular Spectroscopy (3)
        - CHM6492 - Atomic Spectroscopy (3)
        - CHS6546 - Forensic Analysis of Ignitable Liquids (3)
        - CHS6545 - Forensic Analysis of Explosives (3)
        - CHS5937 - Special Topics (3)
  - Forensic Biochemistry Concentration
    - Complete all of the following
      - STA 5206 - Statistical Analysis may be substituted for equivalent course with advisor permission

Nonthesis Option/Forensic Professional Concentration

- Complete all of the following
  - Students in the Forensic Professional concentration are required to take 24 credit hours selected from the list below with approval of their faculty adviser and complete the Capstone course.
  - Earn at least 24 credits from the following:
    - STA5206 - Statistical Analysis (3)
    - CHM5235 - Applied Molecular Spectroscopy (3)
    - CHM6492 - Atomic Spectroscopy (3)
    - CHS6546 - Forensic Analysis of Ignitable Liquids (3)
    - CHS6545 - Forensic Analysis of Explosives (3)
    - CHS6535L - Forensic Analysis of Biological Materials (3)
    - CHS6535 - Forensic Molecular Biology (3)
    - CHS6536 - Population Genetics and Genetic Data (3)
    - BCH6740 - Advanced Biochemistry (3)
    - CGS5131 - Computer Forensics I: Seizure and Examination of Computer Systems (3)
    - CNT6418 - Computer Forensics II (3)
    - CHS5518 - The Forensic Collection and Examination of Digital Evidence (3)
    - CIS6207 - The Practice of Digital Forensics (3)
    - CAP6133 - Advanced Topics in Computer Security and Computer Forensics (3)
    - CHS5937 - Special Topics (3)
    - CHM6710 - Applied Analytical Chemistry (3)
    - CHM6440 - Kinetics and Catalysis (3)
    - CHS6251 - Applied Organic Synthesis (3)
    - CHS6240 - Chemical Thermodynamics (3)
    - BCH6740 - Advanced Biochemistry (3)
    - CHM6134 - Advanced Instrumental Analysis (3)
    - CHM6938 - ST: Electrochemistry (3)

Capstone
- Earn at least 1 credits from the following types of courses:
  - CHS 6908 - Independent Study The capstone experience in the Forensic Professional concentration requires one credit hour of Independent Study, which culminates in the submission of a required report on a pre-approved topic. This study will comprise either (1) a review of the current literature on a particular forensic science research topic area, or (2) a holistic case study dealing with a particular criminal case in which forensic evidence played a significant role.

Equipment Fee
0 Total Credits

- Full-time students in the Forensic Science MS program pay a $90 equipment fee each semester that they are enrolled. Part-time students pay $45 per semester.

2021-2022 Graduate Catalog
Independent Learning

Students in the Forensic Analysis and Forensic Biochemistry concentrations are required to conduct original research and defend a written thesis. Students in the Forensic Professional concentration complete a capstone experience that requires independent research and a report.

Grand Total Credits: **32 - 34**

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Human Factors and Cognitive Psychology PhD

**College**
College of Sciences

**Department**
Department of Psychology

**Program Website**
https://sciences.ucf.edu/psychology/graduate/ph-d-human-factors-and-cognitive-psychology/

**Program Handbook**
Human Factors and Cognitive Psychology PhD

**Program Contact Information**

**James Szalma PhD**
Professor
james.szalma@ucf.edu
Telephone: 407-823-0920
PSY 351

**Mikala Armioia**
Mikala.Armioia@ucf.edu
Telephone: 407-823-3919
PSY 301E

**Is this program available 100% online?**
No
Program Description

A PhD degree track in Human Factors and Cognitive (HFC) Psychology, accredited by the Human Factors and Ergonomics Society, is offered to those with a baccalaureate or master's degree in psychology or an allied area. The track seeks to develop the capacity to design, conduct, and apply human factors and cognitive psychology research in a variety of professional and academic settings. It is patterned on the scientist-practitioner model of the American Psychological Association (APA) and adheres to guidelines established by the committee for Education and Training of APA's Division 21 (Applied Experimental and Engineering Psychology).

The PhD degree track in HFC Psychology seeks to develop the capacity to design, conduct, and apply applied experimental and human factors research in a variety of professional settings. Students receive training in the content and techniques of human factors psychology-including statistical and quantitative procedures, experimental design, survey methods, computer techniques, and other research methodologies. Students are encouraged to also select a concentration area, which they complete as part of their required elective coursework. Examples include human-computer interaction, human-machine-environment interface, human performance, human factors in simulation and training, cognitive neuroscience, or other areas of interest with advisor authorization. In addition to the course requirements, students must demonstrate their knowledge and skills by completing the five competency domains. Finally, a dissertation representing a significant research contribution to the field is required.

We continue to improve the curriculum to adapt to the changing professional and societal demands and to offer the best graduate education and training in human factors and cognitive psychology. In particular, we have modified our curriculum and program requirements and introduced project and outcome-based competency assessments. These changes have helped to focus students' attention on their respective programs of research while simultaneously developing the knowledge and skill sets required to be Ph.D. scientist/practitioners in human factors and cognitive psychology.

Students and graduates of the HFC program have served the local community by improving the enjoyment, comfort, and safety of Walt Disney World entertainment rides, serving as an educational professional at several local colleges and universities and consulting at several government agencies and private industries. To date, our doctoral program continues to be the largest and one of the most prominent in the nation. Both faculty and students have received numerous honors and awards from the Human Factors and Ergonomics Society.

For students who enter with a baccalaureate degree, the Human Factors and Cognitive track in the Psychology PhD program requires a minimum of 75 credit hours, and students may earn the MA degree en route to the PhD by completing all of the requirements of the PhD except for dissertation. For students who already have a master's degree in Psychology, the MA is not available. Students who enter with a master's degree in psychology may be allowed to waive up to 30 hours of graduate course work to the doctoral program with approval of the program faculty, and will also be required to complete a minimum of 60 semester hours at UCF.

Total Credit Hours Required: 75 Credit Hours Minimum beyond the Bachelor's Degree

For students who already have a master's degree in psychology, the number of credit hours will depend on the number of credit hours transferred or waived. However, all students in the program must complete 15 credit hours of dissertation.

Program Prerequisites

Degree(s) should be in psychology or an allied area.

Evidence of successful completion of undergraduate courses in statistics and general areas of experimental psychology.

Students are not normally admitted to the program without having completed a minimum amount of basic preparation in content related to experimental psychology. This preparation is judged on an individual basis but typically consists of at least 18 semester hours in the following:

- Courses in research methods, computer applications, and statistical methods.
- General experimental psychology courses, e.g., learning, physiological, perception, human learning, cognition, motivation, and measurement.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Degree(s) should be in psychology or an allied area.
- The GRE is not required for admission to this program.
- Evidence of successful completion of undergraduate courses in statistics and general areas of experimental psychology.
- Résumé or Curriculum Vitae.
- A clear statement concerning the professional background, the type of research you wish to pursue as a graduate student, and the faculty member you believe would be best suited to serve as your major professor and mentor.
- Three letters of recommendation, with at least two furnished by college or university professors who are acquainted with the applicant.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students are not normally admitted to the program without having completed a minimum amount of basic preparation in content related to experimental psychology. This preparation is judged on an individual basis but typically consists of at least 18 semester hours in the following:

- Courses in research methods, computer applications, and statistical methods.
- General experimental psychology courses, e.g., learning, physiological, perception, human learning, cognition, motivation, and measurement.

Applicants are evaluated for program prerequisites and advised of any need for additional preparation. Previous graduate work is evaluated for credit on a case-by-case basis.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree. Admission criteria are more stringent because of the competitiveness of the application process.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Human Factors &amp; Cognitive Psychology</th>
<th>*Fall Priority</th>
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<tbody>
<tr>
<td>Domestic Applicants</td>
<td>Dec 1</td>
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<tr>
<td>International Applicants</td>
<td>Dec 1</td>
</tr>
</tbody>
</table>

Application Deadlines Notes

The Fall 2022 Application Deadline has been extended until January 1, 2022.

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements
Required Courses
42 Total Credits

- Complete all of the following
  - Students are required to achieve a minimum grade of B- in each core curriculum course. Students who take PSB 6328 and PSB 6348 must achieve a B- in both courses. If students earn a C+ or lower in any core curriculum course, they will be placed on academic probation and they may be required to retake the course or to complete remedial work required by the HFC committee in consultation with the student's adviser. If students earn a C+ or lower in two or more core curriculum courses they will be subject to immediate review by the Program Committee and may be dismissed from the program. It is anticipated that in most cases earning a C+ or lower in two core curriculum courses will result in dismissal from the program.
  - Complete the following:
    - EXP5256 - Human Factors I (3)
    - EXP6257 - Human Factors II (3)
    - EXP6258 - Human Factors III (3)
    - EXP5208 - Sensation and Perception (3)
    - EXP6116 - Visual Performance (3)
    - EXP6255 - Human Performance (3)
    - EXP6506 - Human Cognition and Learning (3)
    - EXP6541 - Advanced Human Computer Interaction (3)
    - INP7089 - Human Factors Professional Issues (3)
    - PSB5005 - Physiological Psychology (3)
    - PSY7217C - Advanced Research Methodology I (4)
    - PSY7218C - Advanced Research Methodology II (4)
    - PSY7219C - Advanced Research Methodology III (4)

Elective Courses
18 Total Credits

- Complete all of the following
  - Students should choose electives in concentrated course groupings: for example, human-machine systems, performance measurement and evaluation, simulation and training, or quantitative methods. Other elective course groupings may be developed for the student's specific interests. Students may choose to satisfy these elective requirements by taking courses outside the Psychology Department that can serve their multidisciplinary needs. Courses outside of the Department that have already been approved as electives are contained in the list below. A student who wishes to use courses that are not included on this list may seek approval by petitioning the HFC Faculty Committee through their academic adviser. Students may take up to 12 credit hours of Directed Research, however, it is highly recommended that they take elective courses that are related to their discipline from other graduate programs or departments at UCF. Electives may include but are not limited to the following courses:
  - Complete at least 6 of the following:
    - DEP5057 - Developmental Psychology (3)
    - Course Not Found
    - DIG6432 - Transmedia Story Creation (3)
    - EINS248 - Ergonomics (3)
    - EINS251 - Usability Engineering (3)
    - EINS255C - Interactive Simulation (3)
    - EINS255C - Interactive Simulation (3)
    - EME6613 - Instructional System Design (3)
    - EME6614 - Instructional Game Design for Training and Education (3)
    - EXP5254 - Human Factors and Aging (3)
    - ID56916 - Simulation Research Methods and Practicum (3)
    - ID56146 - Modeling and Simulation Systems (3)
    - ID56147 - Perspectives on Modeling and Simulation (3)
    - DIG5875C - Introduction to Modeling and Simulation (3)
    - ID56148 - Human Systems Integration for Modeling and Simulation (3)
    - ID56149 - Modeling and Simulation for Test and Evaluation (3)
    - Course Not Found
    - INP7310 - Organizational Psychology I (3)
    - Course Not Found
    - PSB6328 - Psychophysiology (3)
    - PSB6348 - The Neuroanatomical Basis of Psychological Function (3)
    - PSB6352 - Neuroimaging Design and Analysis Methods (3)
    - PSB7349 - Advanced Topics in Cognitive Neuroscience (3)
    - SPS5605 - Building and Improving Relationship and Emotional Intelligence (3)
    - SOP5059 - Advanced Social Psychology (3)
  - EXP 6939 - Teaching Seminar - 3 Credit Hours may also be taken

Concentration in Cognitive Neuroscience (Optional)
0 Total Credits

- The Human Factors and Cognitive Psychology PhD Program offers students opportunities for both lab and course-based training in Cognitive Neuroscience. To support cognitive neuroscience research training, the Department of Psychology maintains state-of-the-art research facilities, including space and equipment for electroencephalography/event-related
potentials (EEG/ERP), functional near-infrared spectroscopy (fNIRS), eye tracking, pupillometry, heart-rate variability, respiration, and electrodermal activity, as well as external collaborations to support functional magnetic resonance imaging (fMRI). In addition, the HFC Program also offers a course-based concentration in Cognitive Neuroscience with the following curriculum: A student who elects to complete the concentration must achieve a minimum grade of B- in each course. PSB 6328 - Psychophysiology 3 Credit Hours PSB 6348 - The Neuroanatomical Basis of Psychological Function 3 Credit Hours PSB 6352 - Neuroimaging Design and Analysis Methods 3 Credit Hours PSB 7349 - Advanced Topics in Cognitive Neuroscience 3 Credit Hours Select 6 credit hours of elective courses from the list above. Note: Admission to these courses is not guaranteed, but is contingent on the decision of the department, college, and instructor of record for the course.

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - PSY 7980 Doctoral Dissertation

Grand Total Credits: 75

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Industrial and Organizational Psychology MS

College
College of Sciences

Department
Department of Psychology

Program Website
http://sciences.ucf.edu/psychology/graduate/ms-io/

Program Handbook
Industrial and Organizational Psychology MS

Program Contact Information
Victoria Pace, PhD
Associate Lecturer
victoria.pace@ucf.edu
Telephone: 407-823-4481
OTC 600 Bldg, Office 281J

Dani Draper
danielle.draper@ucf.edu
Telephone: 407-823-2458
PSY 301G
Is this program available 100% online?

No

Program Description

The Master of Science in Industrial and Organizational Psychology program focuses on the application of psychological principles to organizations and emphasizes the major areas of selection and training of employees, applied theories of organizational behavior including models of motivation, job satisfaction, and productivity; test theory and construction; assessment center technology; statistics and experimental design and a variety of current topics. Industrial and Organizational Psychology graduates are involved in many issues of critical importance to society including fairness in the selection and treatment of employees, the creation of work environments that maximize the satisfaction and productivity of employees, and the study of technological influences on human performance.

The MS degree program in Industrial and Organizational Psychology is a four-semester program for full-time students. Both thesis and nonthesis options are offered and both consist of a minimum of 38 semester hours of work.

Total Credit Hours Required: 38 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

A bachelor's degree with a major in psychology or allied area, or a baccalaureate degree with the completion of undergraduate courses in statistics and research methods, and preference of four additional upper-division psychology courses (12 credit hours)

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended
- Official, competitive GRE score taken within the last five years
- A bachelor's degree with a major in psychology or allied area, or a baccalaureate degree with the completion of undergraduate courses in statistics and research methods, and preference of four additional upper-division psychology courses (12 credit hours)
- Résumé
- A 1-2 page Goal Statement that includes the applicant’s reasons for choosing I/O as a career, reasons for choosing this UCF program specifically, and any relevant knowledge, skills, abilities and other experiences the applicant has that might make him/her a good I/O student, practitioner, and/or researcher
- Three letters of recommendation, preferably with at least two furnished by college or university professors who are acquainted with the applicant

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant’s abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant’s potential for completing the degree.

Acceptance decisions are made only in the spring semester for admission in the fall of each year.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Industrial and Organizational Psychology MS</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<td>Domestic Applicants</td>
<td>Jan 15</td>
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<tr>
<td>International Applicants</td>
<td>Jan 15</td>
<td>Jan 15</td>
<td></td>
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</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Degree Requirements

Required Courses
26 Total Credits

- Complete the following:
  - INP6005 - Overview of Research in Industrial and Organizational Psychology (3)
  - INP6058 - Job Analysis and Performance Appraisal (3)
  - INP6080 - Ethical, Legal, and Professional Issues in Industrial and Organizational Psychology (3)
  - INP6317 - Work Motivation and Job Attitudes (3)
  - INP6318 - Recruitment, Placement and Selection (3)
  - PSY6216C - Research Methodology (4)
  - PSY6308C - Psychological Testing (4)
  - INP6072 - Survey Research Methods and Program Evaluation in Indust. and Org. Psychology (3)

Electives
6 Total Credits

- Complete at least 2 of the following:
  - INP6215 - Assessment Centers and Leadership (3)
  - INP6605 - Training and Team Performance (3)
  - SOP5059 - Advanced Social Psychology (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - INP 6971
  - Nonthesis Option (Restricted Electives: Students will select with their adviser)
    - Complete at least 2 of the following:
      - INP6933 - Seminar in Industrial and Organizational Psychology (3)
      - INP6945C - Industrial Psychology Practicum (3)
      - INP6091 - Industrial and Organizational Psychology Consulting Practice (3)

Grand Total Credits: 38

Financial Information

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Grad Fellowships
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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Industrial and Organizational Psychology PhD

College
College of Sciences

Department
Department of Psychology

Program Website
https://sciences.ucf.edu/psychology/graduate/ph-d-io/

Program Handbook

Program Contact Information

Steve Jex PhD
Professor
steve.jex@ucf.edu
Telephone: 407-823-3912
PSY 350

Is this program available 100% online?
No

Program Description

The Industrial and Organizational Psychology track in the Psychology PhD program develops competency through research and training for the application of psychological principles to organizations. The degree is patterned on the scientist-practitioner model of the American Psychological Association (APA).
Program graduates are involved in many issues of critical importance to society, including fairness in the selection and treatment of employees, the creation of work environments that maximize the satisfaction and productivity of employees, and the study of technological influences on human performance.
The doctoral program provides students with training consistent with the scientist-practitioner model. A key assumption of the program is that every graduate must be a highly competent scientist who can contribute to both the science and practice of the discipline.
You can view our Industrial and Organizational Psychology Doctoral Program Handbook in the link above.
The Psychology PhD program in Industrial and Organizational Psychology (I/O) requires four to five years of full-time study beyond the baccalaureate and three to four years beyond the masters. The first few years are devoted to course work and the final year to the doctoral dissertation.
The I/O program requires a minimum of 75 credit hours of graduate study for students who enter the program with a baccalaureate degree. The nature of this study is determined by the I/O Area Program Committee.

Total Credit Hours Required: 75 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Bachelor's or master's degree in Psychology or another allied area.

Evidence of successful completion of undergraduate courses in statistics and in the general area of experimental psychology.
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Bachelor's or master's degree in Psychology or another allied area.
- Evidence of successful completion of undergraduate courses in statistics and in the general area of experimental psychology.
- Résumé.
- Statement outlining the student's academic and professional background and goals, along with career aspirations and goals.
- Three letters of recommendation, with at least two furnished by college or university professors who are acquainted with the applicant.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

It is preferred that applicants to the program either have a bachelor's degree with a major in psychology, or a baccalaureate degree and completion of undergraduate psychology courses in statistics and research methods; and four additional upper-division courses (12 credit hours) in the core content areas of psychology, for a minimum of 18 upper-division hours in psychology. It is up to the discretion of the I/O admissions committee whether a student accepted into the I/O Psychology PhD program, with a bachelor's degree other than psychology, will be required to take upper-division courses in the core content areas of psychology.

Applicants should note that admission to the PhD program is competitive, and successful applicants are expected to have an outstanding academic record. Admission to the program is based upon an overall assessment of the applicant's potential for completing it and for making significant contributions to the science and/or practice of I/O psychology. Admissions decisions are generally made by the second week in March and applicants are notified of their status shortly thereafter. Note that admission to the program is restricted to the fall semester of each academic year.

**Graduate Application Deadlines**

<table>
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<tr>
<th>Industrial and Organizational Psychology PhD</th>
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<th>Spring</th>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

**Graduate School Contact**

**Anthony Tufano**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

- GRE: 5233  
- GMAT: RZT-HT-58  
- TOEFL: 5233  
- ETS PPI: 5233

**Degree Requirements**

I/O Area Courses  
30 Total Credits

- Complete the following:
  - INP6005 - Overview of Research in Industrial and Organizational Psychology (3)  
  - INP7214 - Industrial Psychology I (3)
INP7310 - Organizational Psychology I (3)  
INP7081 - Professional Issues in Industrial and Organizational Psychology (3)  
PSY7315 - Psychometric Theory and Practice (3)  
PSY7217C - Advanced Research Methodology I (4)  
PSY7218C - Advanced Research Methodology II (4)  
PSY7219C - Advanced Research Methodology III (4)  
INP7071 - Research Methods in Industrial and Organizational Psychology (3)

Psychology Field Courses
6 Total Credits

- Complete the following:
  - SOP5059 - Advanced Social Psychology (3)  
  - EXP6506 - Human Cognition and Learning (3)

Research Courses
6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - INP 6933 - Seminar in Industrial and Organizational Psychology 3 Credit Hours (taken twice) or INP 6971 - Thesis 3 Credit Hours (taken twice)

Teaching Experience
3 Total Credits

- Complete all of the following
  - Earn at least 3 credits from the following:
    - EXP6939 - Teaching Seminar (3 - 99)
  - All students must successfully teach a minimum of one undergraduate course as instructor of record prior to completing the I/O Psychology PhD degree. Fulfillment of the Teaching requirement involves first taking the UCF College of Graduate Studies online and face-to-face GTA Training and EXP 6939 - Teaching Seminar. In addition, students need to serve as instructor of record for an undergraduate class at UCF. First-time students as instructor of record must submit a syllabus, lecture notes, examinations, two course evaluations (mid and end-of-semester), as well as written feedback from the student's major professor or members of the student's doctoral committee who directly observed or viewed videotapes of at least one lecture. Students will be required to administer student evaluations to their class mid-way through the semester so that they can receive feedback and make any necessary changes. The student's adviser will provide ratings of the student's performance as instructor of record at the end of the semester. If the adviser believes that the student has not performed satisfactorily, the adviser will determine remediation specific to the student's weakness (e.g., presentation skills). This remediation is not limited to, but may include, the following: serving as a guest lecturer for another instructor of record, taking a course or seminar, or teaching another semester, as determined by the student's adviser. Fulfillment of the traditional Teaching requirement is intended to provide students with (a) additional training and opportunities to develop instructional skills consistent with university-level instruction, (b) the opportunity to receive and react to constructive comments concerning their developing instructional skills, (c) additional opportunities to learn and develop expertise in using newly developed technology and methods relevant to university-level instruction (e.g., active learning groups, computer-assisted technology, software programs that facilitate and complement traditional instructional activities), and (d) additional expertise in select areas of psychology to prepare them for future professional instructional opportunities following graduation from the university.

Elective Courses
15 Total Credits

- Complete all of the following
  - Students must select five elective courses. These courses must be approved by the student's major adviser and the program director. The courses in this set are selected by the student in conjunction with his or her adviser. Note, however, that all courses in the set must be approved by the I/O Program Committee. The available elective courses include, but are not limited to, the following:
  - Complete at least 5 of the following:
    - MAN6311 - Advanced Topics in Human Resources Management (3)  
    - MAN7207 - Organization Theory (3)  
    - MAN6385 - Strategic Human Resources Management (3)  
    - INP6605 - Training and Team Performance (3)  
    - INP6215 - Assessment Centers and Leadership (3)  
    - INP6058 - Job Analysis and Performance Appraisal (3)  
    - INP6318 - Recruitment, Placement and Selection (3)  
    - INP6933 - Seminar in Industrial and Organizational Psychology (3)  
    - INP 6933 - Seminar in Industrial and Organizational Psychology: 3 Credit Hours (may be taken up to 6 times for credit)

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - PSY 7980 - Doctoral Dissertation
Candidacy Examination

- After completing all required courses, students must pass all four sections of the Candidacy Examination. This is a written examination covering the content of the field and are graded by the I/O faculty. Candidacy Examinations may be taken a maximum of two times. Failure to pass the examination will result in the student being dismissed from the program.

Admission to Candidacy

- The following are required to be admitted to candidacy and enroll in dissertation hours: Completion of all course work, except for dissertation hours. Successful completion of the candidacy examination. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study.

Independent Learning

- Given the nature of graduate training and the pursuit of a doctoral degree, graduate students in industrial and organizational psychology are expected to engage in independent learning throughout their graduate career. The completion of the doctoral dissertation is an example of independent learning in which all graduate students participate. In addition, a master's thesis or other research projects will be undertaken by the students from the first year on. To facilitate this process, students are expected to attend weekly program-sponsored research presentations during the fall and spring semesters and will be required to give at least three of these presentations prior to graduation.

Grand Total Credits: 75

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

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Telephone: 407-823-2827
Appointment Line: 407-823-5285
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http://finaid.ucf.edu

Fellowship Information

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Integrative and Conservation Biology PhD

College
College of Sciences

Department
Department of Biology

Program Website
https://sciences.ucf.edu/biology/graduate/

Program Handbook
Integrative and Conservation Biology PhD
Program Contact Information

Kate Mansfield PhD
Associate Professor
Graduate Program Director
BioGradChair@ucf.edu
BIO 402B

Juana Pasco
Graduate Admissions Specialist
juana.pasco@ucf.edu
Telephone: 407-823-6525
BL301

Is this program available 100% online?
No

Program Description

The Integrative and Conservation Biology PhD program prepares students for independent research and roles within industry, nongovernmental organizations, academia, or government sectors, combining biological sciences with a range of other disciplines.

The purpose of this interdisciplinary training is to produce scientists capable of doing independent research and the ability to communicate issues of biology and conservation to policymakers, the general public, and industry.

Students will choose one of two specializations: Conservation Biology or Integrative Biology. The Conservation Biology Track is intended to provide the academic background necessary to begin work in industry, non-governmental organizations, or government in a leadership role applying cutting-edge principles to problem-solving in conservation biology. The Integrative Biology Track embraces applied and basic research concerning ecology, evolution, physiology, genetics, behavior, and conservation. Students in either track would be prepared to pursue an academic career. Please scroll to the bottom of this page for further details on these tracks.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants must choose a track in this program. Track(s) may have different requirements.

Applicants should first identify faculty who match their own research interests and then contact faculty in advance to inquire about research opportunities in faculty labs and to solicit agreement that a faculty member is interested in serving as the student’s dissertation advisor. Applicants to the PhD program who do not have a consenting dissertation advisor within the faculty will not be accepted into the program.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
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Orlando, FL 32816-0112

Institution Codes
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Integrative and Conservation Biology PhD - Integrative and Conservation Biology PhD, Conservation Biology Track

College
College of Sciences

Department
Department of Biology

Track Website
http://sciences.ucf.edu/biology/graduate

Track Handbook
Integrative and Conservation Biology PhD, Conservation Biology Track

Track Contact Information

Kate Mansfield PhD
Associate Professor
Graduate Program Director
BioGradChair@ucf.edu
BIO 402B

Juana Pasco
Graduate Admissions Specialist
juana.pasco@ucf.edu
Telephone: 407-823-6525
BL301

Is this track available 100% online?
No
**Track Description**

The Conservation Biology track in the Integrative and Conservation Biology PhD program prepares students for independent research and roles within industry, nongovernmental organizations or government sectors combining traditional biological sciences with a range of other disciplines.

The Conservation Biology track within the Integrative and Conservation Biology PhD program is intended to provide the academic background necessary to begin work in industry, nongovernmental organizations, or government in a leadership role applying cutting-edge principles to problem solving in conservation biology. Students in this track would also be prepared to pursue an academic career.

The Conservation Biology Track in the Integrative and Conservation Biology PhD program requires 72 credit hours beyond the bachelor's degree, including a minimum of 27 hours of formal coursework excluding independent study. The formal coursework includes 15 credit hours of required core courses and at least 12 credit hours of additional graduate-level courses from Biology (or other departments) selected in consultation with the advisor and the dissertation committee (at least 4 of the 12 credit hours must be offered through the Biology Department). The remaining 45 credit hours may consist of additional electives, doctoral dissertation research (PCB 7980), and a maximum of 12 credit hours of combined directed research (PCB 6918, PCB 7919, and PCB 5917) and independent study (PCB 6908). In addition, at least 15 credit hours of the remaining 45 credit hours must be comprised of doctoral dissertation research (PCB 7980).

**Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

Students entering the graduate program with regular status are normally expected to have completed course work generally required for a bachelor's degree in biology.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation.
- Résumé or CV.
- A personal statement. Assessment of your application is based on your academic background, analytical skills, communication skills, and research experience. A personal statement is an opportunity to convey to the selection committee your personal, academic, and/or professional experiences that have led to your desire to attend graduate school. Include your long-term career goals and how a graduate education will help you achieve these goals. It is important to dedicate a section of your statement to discuss your research interests. Please include a research question and approach (to the extent possible) you would like to pursue while earning your degree.
- A computer-based score of 230 (or 89 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant's degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students entering the graduate program with regular status are normally expected to have completed course work generally required for a bachelor's degree in biology.

Applicants should first identify faculty who match their own research interests, and then contact faculty in advance to inquire about research opportunities in faculty labs and to solicit agreement that a faculty member is interested in serving as the student's dissertation advisor. Applicants to the Ph.D. program who do not have a consenting dissertation advisor within the department faculty will not be accepted into the program. Admission is competitive and based on an overall assessment of the qualifications as submitted and the availability of faculty to serve as dissertation advisor.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, the identification of a dissertation advisor, and the applicant's potential for completing the degree.

**Graduate Application Deadlines**

<table>
<thead>
<tr>
<th>Conservation Biology</th>
<th><strong>Fall Priority</strong></th>
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<th>Spring</th>
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<td>International Applicants</td>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or teaching assistantships should apply by the Fall Priority date.

Students applying for summer or spring admission will be considered on an ad hoc basis.

**Graduate School Contact**

Anthony Tufano  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

Required Courses  
15 Total Credits

- Complete all of the following
  - PCB6042 - Conservation Biology Theory (4)  
  - PCB6053C - Restoration Ecology (4)  
  - PCB6466 - Methods in Experimental Ecology (3)  
  - PCB6095 - Professional Development in Biology I (1)  
  - PCB6096 - Professional Development in Biology II (1)
- Earn at least 2 credits from the following:
  - BSC6935 - Seminar in Biology (1)
- BSC 6935 - Seminar in Biology: Students will take 1 credit hour each of two semesters.

Elective Courses  
12 Total Credits

- Earn at least 12 credits from the following types of courses:
  - A minimum of 12 credit hours of formal graduate-level courses from Biology, or other departments, are selected in consultation with the advisor and the dissertation committee. The goal is to tailor the program of study to the individual student’s needs while maximizing exposure to a variety of disciplines including, among others, policy, economics, sociology, engineering, chemistry, statistics, or computer science.

Dissertation  
15 Total Credits

- Complete all of the following
  - Earn at least 15 credits from the following types of courses:
    - PCB 7980 - Dissertation  
      Advisory Committee  
    - The Advisory Committee shall consist of a minimum of four members, including the dissertation advisor, with at least three members coming from the graduate faculty in the Biology Department. At least one member will be from a department other than Biology or from outside the university. The chair, or co-chair, must be a member of the program graduate faculty.

Enrollment Requirements  
0 Total Credits

- Students are required to register for 9 credit hours in fall and spring before their candidacy exam, and 6 credit hours in summer if enrolled. After being admitted to candidacy, minimum enrollment is 3 credit hours of dissertation research each semester.

Additional Electives  
30 Total Credits

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**2021-2022 Graduate Catalog**
Earn at least 30 credits from the following types of courses:
In addition to the above required, elective, and dissertation credits, the student must enroll in an additional 30 credit hours of electives. These electives may include additional formal coursework, additional dissertation research hours (PCB 7980), and a maximum of 12 credit hours combined of independent study (PCB 6908) and directed research (PCB 6918, PCB 7919, and PCB 5917). Professional internship hours can be substituted for directed research.

Examinations
0 Total Credits

Details

Qualifying Examination
0 Total Credits

- The written qualifying examination should be completed within the first two years of the student's program. The exam seeks to cover areas of general knowledge and discipline-specific knowledge within the student's declared track. These questions could be related to the dissertation research proposal or designed to examine general knowledge and reasoning within the field. The candidate will meet with their advisory committee at least two months prior to the examination to discuss expectations. Committee members must clearly articulate in writing the general areas that may be examined. Any student failing the examination must repeat the examination within six calendar months of the date of the first examination and requires a majority vote by committee members to pass the exam. A second failed attempt will result in dismissal from the program.

Candidacy Examination
0 Total Credits

- Each student will be required to generate and orally defend a written proposal outlining their dissertation research to their dissertation advisory committee no later than 12 months after passing the Qualifying Examination. The oral Candidacy Examination will cover all areas within the scope of the student's doctoral program and requires that the student demonstrate knowledge of the theory, literature and research methodologies relevant to the proposed area of research as well as demonstrate an understanding of how their work relates to the field of biology as a whole. After passing the Candidacy Examination and meeting other requirements, the student will be deemed as having been admitted to candidacy and can register for dissertation hours. Once a student is admitted to candidacy, the focus will be on dissertation research. For most students, the research and writing of the dissertation will take two to three years after advancing to candidacy. During this time, students should remain in close contact with the dissertation advisor and advisory committee, and annual progress reports must be filed with the Graduate Program Director.

Candidacy Examination - Written Proposal
0 Total Credits

- A written dissertation proposal, already approved by the advisor, must be submitted to each committee member no later than two weeks prior to the Candidacy Examination. Typically, the proposal will be in the format described below. However, in cases where this format is not appropriate, an alternative format may be used with the approval of the dissertation advisor. The proposal should be approximately 10 to 15 pages in length not including references, single-spaced and typed in 12-point font with one-inch margins on all sides. The use of figures and tables is encouraged. With rare exceptions it is expected that dissertation research will be hypothesis-driven. Specific Aims: Describe concisely the problem(s) to be addressed and the specific goals of the dissertation research as they relate to the problem(s), including clear statements of hypotheses to be tested. Background and Significance: Review background literature relevant to the dissertation topic, indicating clearly where gaps in knowledge exist. Justify the need for the research by explaining its anticipated significance. Conclude by linking gaps in current knowledge to the proposed specific aims. Methodology: Outline carefully the study design (observations, experiments, models, statistical analysis, etc.) related to, and the methodology to be used for, each specific aim. Methodologies should be explained in sufficient detail to allow committee members to assess the validity of its use in the study. Potential outcomes and alternative approaches should be discussed. Literature Cited: References should be indicated in the main body of the proposal wherever appropriate and should follow the format of a peer-reviewed journal in a field of study appropriate to the research. This section can be as long as necessary.

Candidacy Examination - Oral Component
0 Total Credits

- At least two weeks prior to the examination, an abstract describing the proposed research will be posted in the Biological Sciences Building and circulated by e-mail among faculty and graduate students. The candidate will present the research proposal in a forum open to all faculty, students and visitors. The oral presentation should be approximately 30-45 minutes in length to be followed by a public question-and-answer period. Presentation of preliminary data is neither required nor expected, but should be provided if available and relevant. With the exception of the advisory committee and candidate, all faculty, students and visitors will leave at the conclusion of the public question-and-answer period. The committee will continue the exam in closed session with further questioning. Questions can be directed to any matter relevant to the research proposal and areas of weakness previously identified in the written (qualifying) exam. A majority vote is required to pass the examination; however, no more than one negative vote is permitted. The majority must include the dissertation advisor. Any student failing the examination must repeat the examination within six calendar months of the date of the first examination. A second failed attempt will result in dismissal from the program.

Admission to Candidacy
0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours: Program of study submitted and approved. Dissertation Committee formed (without external member) Successful completion of the qualifying exam.
Dissertation Defense
0 Total Credits

- The dissertation is expected to represent an original and significant contribution to the discipline. Upon completion and approval of the doctoral dissertation by all appropriate faculty and university offices, the student will make a formal presentation of the research findings in seminar format to the dissertation committee and other university faculty and students who may wish to attend. The dissertation should be in a format appropriate for publication and should be “tightened” to a readiness for submittal by use of appendixes for nonessential information. The major role of the student’s advisory committee is to offer guidance on study design and interpretation of results. A polished draft must be delivered to the advisory committee for review after the student and dissertation advisor have agreed upon editorial changes; this should occur well before the anticipated date of the final defense. Committee members have the right to reject documents that fail to meet these guidelines. Committee members should be given at least two weeks to review the draft before the student attempts to schedule the final defense. The final defense is to be scheduled only after the advisory committee agrees that the dissertation is ready for defense. Committee members should return the corrected dissertation to the student two weeks after receipt and the candidate should check with committee members to ensure they have the time to review the document. For example, if the student delivers the final draft to the committee one month prior to the proposed defense date, that would allow two weeks before the scheduled defense date for the student to make recommended changes. At least two weeks prior to the defense, an abstract describing the research conducted and conclusions reached will be posted in the Biological Sciences Building, circulated by e-mail among faculty and graduate students, and posted at the College of Graduate Studies Events Calendar. The candidate will present the research in a forum open to all faculty, students, and visitors. The oral presentation should be approximately 45-50 minutes in length to be followed by a question-and-answer period. In the presentation the candidate should focus on background information, describe the research performed, and draw attention to the significance of the conclusions reached. With the exception of the committee and candidate, all faculty, students, and visitors will leave at the conclusion of the question-and-answer period. The committee will continue the defense and the candidate will answer questions about the subject matter presented and defend the conclusions drawn. The committee will ask questions of the process used and assess the candidate’s level of competency with the research topic. A majority vote is required to pass the examination; however, no more than one negative vote is permitted. The majority must include the dissertation advisor.

Student Orientation
0 Total Credits

- An orientation for all incoming students will be scheduled one week prior to each fall semester. The orientation will include tours of the program facilities, a session on registration, university policies and procedures, and expectations of doctoral study. Further, Environmental Health and Safety will present a program on topics such as laboratory safety, chemical and fire safety, biohazard training, and radioisotope handling. Expectations for Graduate Teaching Assistants (GTA) and Graduate Research Assistants (GRA) will be fully covered. In addition, students will be required to participate in the program for GTAs offered by the UCF Faculty Teaching and Learning Center and the College of Sciences. Students are strongly encouraged to attend the university's orientation also, held approximately one week before classes begin in the Fall semester.

Independent Learning
0 Total Credits

- The dissertation satisfies the independent learning experience.

Grand Total Credits: 72

Track Details

A student is required to establish a program of study before the completion of nine credit hours of coursework, in conjunction with their dissertation advisor and advisory committee. A student's advisory committee may require the candidate to take any graduate course taught at UCF if deemed appropriate for the student's area of emphasis. Students entering with a master's degree may request up to 30 semester credit hours of previous work be waived toward the requirements for this degree with approval from the advisory committee. Students who transfer 30 credit hours must still take 2 credit hours of Biology Seminar (BSC 6935) and Professional Development I (PCB 6095) and II (PCB 6096). Students may register for dissertation research only after passing the candidacy exam.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fx: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Integrative and Conservation Biology PhD - Integrative and Conservation Biology PhD, Integrative Biology Track

College
College of Sciences

Department
Department of Biology

Track Website
https://sciences.ucf.edu/biology/graduate/

Track Handbook
Integrative and Conservation Biology PhD, Integrative Biology Track

Track Contact Information

Kate Mansfield PhD
Associate Professor
Graduate Program Director
BioGradChair@ucf.edu
BIO 402B

Juana Pasco
Graduate Admissions Specialist
juanapasco@ucf.edu
Telephone: 407-823-6525
BL301

Is this track available 100% online?
No

Track Description

The Integrative Biology track in the Integrative and Conservation Biology PhD program prepares students for independent research and roles within industry, nongovernmental organizations or government sectors combining traditional biological sciences with a range of other disciplines.

The Integrative Biology track within the Integrative and Conservation Biology PhD program embraces applied and basic research concerning ecology, evolution, physiology, genetics, behavior, and conservation. Students taking this track will be prepared to pursue an academic career.

The Integrative Biology Track requires 72 credit hours beyond the bachelor's degree, including a minimum of 27 hours of formal coursework excluding independent study. The formal coursework includes 7 credit hours of required core courses and at least 20 credit hours of graduate-level courses from Biology (or other departments) selected in consultation with the advisor and the dissertation committee (at least 12 of the 20 credit hours must be offered through the Biology Department). The remaining 45 credit hours may consist of additional electives, doctoral dissertation research (PCB 7980), and a maximum of 12 credit hours of combined directed research (PCB 6917, PCB 7919, and PCB 5917) and independent study (PCB 6908). In addition, at least 15 credit hours of the remaining 45 credit hours must be comprised of doctoral dissertation research (PCB 7980).

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites

Students entering the graduate program with regular status are normally expected to have completed course work generally required for a bachelor's degree in biology.
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation.
- Résumé or CV
- A personal statement. Assessment of your application is based on your academic background, analytical skills, communication skills, and research experience. A personal statement is an opportunity to convey to the selection committee your personal, academic, and/or professional experiences that have led to your desire to attend graduate school. Include your long-term career goals and how a graduate education will help you achieve these goals. It is important to dedicate a section of your statement to discuss your research interests. Please include a research question and approach (to the extent possible) you would like to pursue while earning your degree.
- A computer-based score of 230 (or 89 internet-based score) on the Test of English as a Foreign language (TOEFL) if an applicant is from a country where English is not the official language, or if an applicant’s degree is not from an accredited U.S. institution, or if an applicant did not earn a degree in a country where English is the only official language or a university where English is the only official language of instruction. Although we prefer the TOEFL, we will accept IELTS scores of 7.0.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Students entering the graduate program with regular status are normally expected to have completed course work generally required for a bachelor’s degree in biology.

Applicants should first identify faculty who match their own research interests, and then contact faculty in advance to inquire about research opportunities in faculty labs and to solicit agreement that a faculty member is interested in serving as the student’s dissertation advisor. Applicants to the Ph.D. program who do not have a consenting dissertation advisor within the department faculty will not be accepted into the program. Admission is competitive and based on an overall assessment of the qualifications as submitted and the availability of faculty to serve as dissertation advisor.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant’s abilities, past performance, recommendations, match of this program and faculty expertise to the applicant’s career/academic goals, the identification of a dissertation adviser, and the applicant’s potential for completing the degree.

**Graduate Application Deadlines**

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<th>Integrative Biology</th>
<th><em>Fall Priority</em></th>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or teaching assistantships should apply by the Fall Priority date.

Students applying for summer or spring admission will be considered on an ad hoc basis.
**Graduate School Contact**

**Anthony Tufano**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

**Degree Requirements**

**Required Courses**  
7 Total Credits

- Complete all of the following
  - Complete the following:
    - PCB6466 - Methods in Experimental Ecology (3)
    - PCB6095 - Professional Development in Biology I (1)
    - PCB6096 - Professional Development in Biology II (1)
  - Earn at least 2 credits from the following:
    - BSC6935 - Seminar in Biology (1)

**Elective Courses**  
20 Total Credits

- Earn at least 20 credits from the following types of courses:
  A minimum of 20 credit hours of formal graduate-level courses from Biology, or other departments, are selected in consultation with the advisor and the dissertation committee. The goal is to tailor the program of study to the individual student's needs while maximizing exposure to a variety of disciplines including, among others, policy, economics, sociology, engineering, chemistry, statistics, or computer science.

**Dissertation**  
15 Total Credits

- Complete all of the following
  - Earn at least 15 credits from the following types of courses:
    - PCB 7980 - Dissertation
  - The Advisory Committee shall consist of a minimum of four members, including the dissertation advisor, with at least three members coming from the graduate faculty of the Biology Department. At least one member will be from a department other than Biology or from outside the university. The chair, or co-chair, must be a member of the program graduate faculty.

**Enrollment Requirements**  
0 Total Credits

- Students are required to register for 9 credit hours in fall and spring before their candidacy exam, and 6 credit hours in summer if enrolled. After being admitted to candidacy, minimum enrollment is 3 credit hours of dissertation research each semester.

**Additional Electives**  
30 Total Credits

- Earn at least 30 credits from the following types of courses:
  In addition to the above required, elective, and dissertation credits, the student must enroll in an additional 30 credit hours of electives. These electives may include additional formal coursework, additional dissertation research hours (PCB 7980), and a maximum of 12 credit hours combined of independent study (PCB 6908) and directed research (PCB 6918, PCB 7919, and PCB 5917). Professional internship hours can be substituted for directed research.

**Examinations**  
0 Total Credits
Details

Qualifying Examination
0 Total Credits

- The written qualifying examination should be completed within the first two years of the student's program. The exam seeks to cover areas of general knowledge and discipline-specific knowledge within the student's declared track. These questions could be related to the dissertation research proposal or designed to examine general knowledge and reasoning within the field. The candidate will meet with their advisory committee at least two months prior to the examination to discuss expectations. Committee members must clearly articulate in writing the general areas that may be examined. Any student failing the examination must repeat the examination within six calendar months of the date of the first examination and the examination requires a majority vote by committee members. A second failed attempt will result in dismissal from the program.

Candidacy Examination
0 Total Credits

- Each student will be required to generate and orally defend a written proposal outlining their dissertation research to their dissertation advisory committee no later than 12 months after passing the Qualifying Examination. The oral Candidacy Examination will cover all areas within the scope of the student's doctoral program and requires that the student demonstrate knowledge of the theory, literature, and research methodologies relevant to the proposed area of research as well as demonstrate an understanding of how their work relates to the field of biology as a whole. After passing the Candidacy Examination and meeting other requirements, the student will be deemed as having been admitted to candidacy and can register for dissertation hours. Once a student is admitted to candidacy, the focus will be on dissertation research. For most students, the research and writing of the dissertation will take two to three years after advancing to candidacy. During this time, students should remain in close contact with the dissertation advisor and advisory committee and annual progress reports must be filed with the Graduate Program Director.

Candidacy Examination - Written Proposal
0 Total Credits

- A written dissertation proposal, already approved by the advisor, must be submitted to each committee member no later than two weeks prior to the Candidacy Examination. Typically, the proposal will be in the format described below. However, in cases where this format is not appropriate, an alternative format may be used with the approval of the dissertation advisor. The proposal should be approximately 10 to 15 pages in length not including references, single-spaced and typed in 12-point font with one-inch margins on all sides. The use of figures and tables is encouraged. With rare exceptions it is expected that dissertation research will be hypothesis-driven. Specific Aims: Describe concisely the problem(s) to be addressed and the specific goals of the dissertation research as they relate to the problem(s), including clear statements of hypotheses to be tested. Background and Significance: Review background literature relevant to the dissertation topic, indicating clearly where gaps in knowledge exist. Justify the need for the research by explaining its anticipated significance. Conclude by linking gaps in current knowledge to the proposed specific aims. Methodology: Outline carefully the study design (observations, experiments, models, statistical analysis, etc.) related to, and the methodology to be used for, each specific aim. Methodologies should be explained in sufficient detail to allow committee members to assess the validity of its use in the study. Potential outcomes and alternative approaches should be discussed. Literature Cited: References should be indicated in the main body of the proposal wherever appropriate and should follow the format of a peer-reviewed journal in a field of study appropriate to the research. This section can be as long as necessary.

Candidacy Examination - Oral Component
0 Total Credits

- At least two weeks prior to the examination, an abstract describing the proposed research will be posted in the Biological Sciences Building and circulated by e-mail among faculty and graduate students. The candidate will present the research proposal in a forum open to all faculty, students, and visitors. The oral presentation should be approximately 30-45 minutes in length to be followed by a public question-and-answer period. Presentation of preliminary data is neither required nor expected, but should be provided if available and relevant. With the exception of the advisory committee and candidate, all faculty, students and visitors will leave at the conclusion of the public question-and-answer period. The committee will continue the exam in closed session with further questioning. Questions can be directed to any matter relevant to the research proposal and areas of weakness previously identified in the written (qualifying) exam. A majority vote is required to pass the examination; however, no more than one negative vote is permitted. The majority must include the dissertation advisor. Any student failing the examination must repeat the examination within six calendar months of the date of the first examination. A second failed attempt will result in dismissal from the program.

Admission to Candidacy
0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours: Program of study submitted and approved. Dissertation Committee formed (without external member). Successful completion of qualifying exam. Completion of all coursework (except for dissertation hours). External member added to Dissertation Committee. Successful completion of candidacy exam.

Dissertation Defense
0 Total Credits

- The dissertation is expected to represent an original and significant contribution to the discipline. Upon completion and approval of the doctoral dissertation by all appropriate faculty and university offices, the student will make a formal presentation of the research findings in seminar format to the dissertation committee and other university faculty and
Fellowship Information

Financial Information

Track Details

Student Orientation
0 Total Credits

- An orientation for all incoming students will be scheduled one week prior to each fall semester. The orientation will include tours of the program facilities, a session on registration, university policies and procedures, and expectations of doctoral study. Further, Environmental Health and Safety will present a program on topics such as laboratory safety, chemical and fire safety, biohazard training, and radiisotope handling. Expectations for Graduate Teaching Assistants (GTA) and Graduate Research Assistants (GRA) will be fully covered. In addition, students will be required to participate in the program for GTAs offered by the UCF Faculty Center for Teaching and Learning and the College of Sciences. Students are strongly encouraged to attend the university orientation as well, held approximately one week prior to each fall semester.

Independent Learning
0 Total Credits

- The dissertation satisfies the independent learning experience.

Grand Total Credits: 72

Track Details

A student is required to establish a program of study before the completion of nine credit hours of coursework, in conjunction with their dissertation advisor and advisory committee. A student's advisory committee may require the candidate to take any graduate course taught at UCF if deemed appropriate for the student's area of emphasis. Students entering with a master's degree may request up to 30 semester credit hours of previous work be waived toward the requirements for this degree with approval from the advisory committee. Students who transfer 30 credit hours must still take 2 credit hours of Biology Seminar (BSC 6935) and Professional Development I (PCB 6095) and II (PCB 6096). Students may register for dissertation research only after passing the candidacy exam.

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Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu
Integrative Anthropological Sciences PhD

College
College of Sciences

Department
Department of Anthropology

Program Website
https://sciences.ucf.edu/anthropology/

Program Handbook
Integrative Anthropological Sciences PhD

Program Contact Information
Beatriz Reyes-Foster PhD
Associate Professor
beatriz.reyes-foster@ucf.edu
Telephone: 407-823-2206
HPH RM 309

Is this program available 100% online?
No

Program Description
The Integrative Anthropological Sciences PhD emphasizes cross-disciplinary empirical research on the dynamics of transformation and change in societies past and present. The program integrates methodologies from the science and technology components of Science, Technology, Engineering, and Math (STEM) with the theoretical and analytical strengths of social science to address critical social challenges.

The curriculum is comprised of the following basic elements: 1) a core curriculum focused on methodological expertise; 2) a topical curriculum covering the dynamics of transformation in human societies; 3) professional competence in workplace skills embedded into all courses; and 4) experiential learning via independent research. The central purpose of the program is to produce graduates with the necessary methodological expertise and analytical skills to create innovative solutions to the ongoing challenges of local and global disparities, environmental and anthropogenic crises, and the resilience and vulnerability of human populations.

The Integrative Anthropological Sciences PhD requires 51 credit hours beyond an earned master's degree. Required coursework minimally includes 12 credit hours of core courses, 24 credit hours of elective courses, and 15 hours of dissertation research. If foundational or theoretical coursework is not present in the earned master's, remaining credit hours may consist of additional electives, doctoral research, and a maximum of 9 credit hours of directed research and independent study.

Total Credit Hours Required: 51 Credit Hours Minimum beyond the Master's Degree

Program Prerequisites
A master's degree or its equivalent in Anthropology or a closely related discipline.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A master's degree or its equivalent in Anthropology or a closely related discipline.
- A minimum cumulative GPA of 3.5 for all master's level work completed.
- Official, competitive GRE score taken within the last five years.
- A personal statement not to exceed 1,500 words.
- A curriculum vitae.
- A writing sample of at least 2,500 words demonstrating the ability to conduct graduate-level work.
- Three letters of recommendation.
- An on campus, by phone or virtual interview with a potential advisor.
- International applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL) or other equivalent test approved by the Graduate College unless they hold a degree from a US accredited institution. The TOEFL is strongly preferred. The minimum TOEFL score for full admissions consideration is 90 on the Internet-based test (IBT), 232 on the computer-based test, or 575 on the paper-based test. The minimum IELTS score is 7.0. Applicants should plan to take the appropriate test no later than November to ensure consideration of their applications by the December 1 deadline.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Integrative Anthropological Sciences PhD</th>
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<tr>
<td>Domestic Applicants</td>
<td>Dec 1</td>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits
No Rules
Core
9 Total Credits

- Complete the following:
  - ANG6002 - Proseminar in Anthropology (3)
  - ANG6931 - Science, Technology, and the Transformation of Human Societies (3)
  - ANG7075 - Advanced Anthropological Topics in Geospatial Analysis (3)

2021-2022 Graduate Catalog
Research Methods
3 Total Credits

- Complete at least 1 of the following:
  - ANG6498 - Advanced Qualitative Methods in Anthropology (3)
  - ANG7496 - Advanced Quantitative Methods in Anthropology (3)

Elective Courses
24 Total Credits

- All students in the doctoral program must complete 24 hours of unrestricted electives. The unrestricted electives offer the student the opportunity to explore their interests, further advance their methodological skills, and gain interdisciplinary experience. To fulfill their unrestricted electives requirement, students may also take graduate-level courses in programs outside the department, particularly in Biology, Sociology, Political Science, History, and the College of Health and Public Affairs but, outside courses must not exceed 12 credit hours. The student's faculty advisor and the Graduate Program Coordinator must approval all graduate courses taken outside the department. The student may also use the second methods course identified in the Core requirement as an Unrestricted Elective. The departmental course options for the Unrestricted Electives include the following:

Unrestricted Electives
24 Total Credits

- Earn at least 24 credits from the following:
  - ANG5094 - Writing in Anthropology (3)
  - ANG5166 - Problems in Maya Studies (3)
  - Course Not Found
  - ANG5191 - Mortuary Archaeology (3)
  - ANG5228 - Maya Iconography (3)
  - Course Not Found
  - Course Not Found
  - Course Not Found
  - Course Not Found
  - Course Not Found
  - ANG5486 - Quantitative Research in Anthropology (3)
  - ANG5525C - Human Osteology (4)
  - ANG5531 - Nutritional Anthropology (3)
  - Course Not Found
  - ANG5738 - Advanced Medical Anthropology (3)
  - ANG5742 - Problems in Forensic Anthropology (3)
  - ANG5822 - Maya Field Research (3)
  - ANG5852 - GIS Methods in Anthropology (3)
  - ANG5853 - Advanced GIS Methods in Anthropology (3)
  - ANG6003 - Ethics in Anthropology (3)
  - ANG6021 - Advanced Topics in Environmental Transformations (3)
  - ANG6110 - Archaeological Theory and Method (3)
  - ANG6125C - Applied Materials Analysis in Anthropological Sciences (3)
  - ANG6144 - Contemporary Problems in the Study of Complex Societies (3)
  - ANG6168 - The Ancient Maya (3)
  - ANG6181C - GIS Applications in Anthropology (3)
  - ANG6184 - Advances in Archaeological Practice (3)
  - ANG6324 - Contemporary Maya (3)
  - ANG6405 - Food Security and Sustainability (3)
  - ANG6411 - Business Practices for the Anthropological Sciences (3)
  - ANG6467 - Advanced Topics in Medical Anthropology (3)
  - ANG6520C - Advanced Human Osteology (3)
  - ANG6536 - Advances in Bioarchaeology (3)
  - ANG6587 - Seminar in Biological Anthropology (3)
  - ANG6821 - Forensic Archeology Field Methods (3)
  - ANG6701 - Public and Applied Anthropology (3)
  - ANG6930 - Seminar in Cultural Anthropology (3)
  - ANG6740C - Advanced Forensic Anthropology (3)
  - ANG6801 - Ethnographic Research Methods (3)

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - ANG 7980 Dissertation Research -15 credit hours In consultation with the advisor, each student must secure qualified members of their dissertation committee. The dissertation committee will consist of a minimum four members. At least three members must be Anthropology Graduate Faculty, and the student's advisor will serve as the committee chair. One member must be from either outside the student's department or UCF. Graduate faculty members must form the majority of any given committee. A Dissertation Committee must be formed prior to enrollment in dissertation hours. A student who passes their candidacy exam (proposal defense) will begin the dissertation process. The dissertation serves as the culmination of the coursework that comprises this research-based degree. It must make a significant original theoretical, intellectual, practical, creative, or research contribution to the student's area within the discipline. Dissertations will be theoretically grounded, show
expertise in the topic area, and utilize methodologically sound analysis of either quantitative data, qualitative data or mixed-methods data. The dissertation will be completed through a minimum of 15 hours of dissertation credit, which students will use to conduct original research.

Examinations
0 Total Credits
No Rules
Qualifying Exam
0 Total Credits

- Students are expected to form their dissertation committee by the beginning of their third semester. The Qualifying Exam will consist of a collection of research statements written by the PhD student in consultation with their committee and an oral defense of the statements. The number and topics of the statements will be determined by the advisor in consultation with the student and the dissertation committee. Passing the qualifying exam is necessary before a student can schedule their Candidacy Exam.

Candidacy Examination—Written Proposal and Oral Defense
0 Total Credits

- Advancement to candidacy requires a successful defense of the student's dissertation grant proposal. This defense takes place in the semester prior to the one in which the student intends to enroll in dissertation hours, normally during the 4th semester. The proposal defense is based on a research proposal that follows the guidelines and format of a major external grant agreed upon by the dissertation committee.

Independent Learning
0 Total Credits

- As with all graduate programs, independent learning is an important component in the IAS doctoral program. Students will demonstrate independent learning through research seminars, directed research and the dissertation. Doctoral students are also expected to pursue additional independent reading beyond formal coursework relevant to their research and career direction.

Grand Total Credits: 51

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Intelligence and National Security Graduate Certificate

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Program Website
https://sciences.ucf.edu/politics/graduate/
Program Contact Information

Andrew Boutton
Assistant Professor
andrew.boutton@ucf.edu
Telephone: 407-823-2608
HPH 305C

Is this program available 100% online?
No

Program Description

The Graduate Certificate in Intelligence and National Security provides an interdisciplinary graduate education for people engaged in or seeking professional careers in intelligence policy with a focus on analysis of security threats or crises, both domestic and international, through use of human, electronic and public domain intelligence sources.

In addition, students will be introduced to various analytic approaches including game theory, network analysis, nonintrusive measurement, geospatial approaches and quantitative analysis.

Graduates are prepared to perform “key functions including conducting research and gathering information, identifying intelligence gaps, interpreting and evaluating information from multiple (and sometimes contradictory) sources, monitoring trends and events related to a particular country or issue, and preparing written and oral assessments.” This expectation comes from the job description for an intelligence analyst established by the federal government at www.intelligence.gov/careers-in-intelligence/analysis.html.

The certificate in Intelligence and National Security consists of 18 credit hours at the graduate level, including two required core courses and four electives.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Applicants who have been admitted to a degree-seeking graduate program at UCF may apply for admission to the certificate program.

Other interested applicants must contact the Certificate Advisor to inquire about admission to the certificate program prior to applying.

Application Requirements

A bachelor's degree from an accredited institution recognized by UCF is required for admission into the graduate certificate program.

Applicants who have been admitted to a degree-seeking graduate program at UCF may apply for admission to the certificate program through the UCF graduate school online portal.

Other interested applicants must contact the Certificate Advisor to inquire about admission to the certificate program prior to applying.

Applicants must apply online. All requested material must be submitted prior to the deadline; materials received after the deadline may not be considered. Admission to this certificate program is competitive; applicants are not guaranteed admission.

All applicants to this certificate program will be required to submit:

- A current professional resume
- An academic goal statement addressing the applicant's interest in pursuing the certificate program, career goals, and any experience that he or she has had in the field.
- An official transcript from each college/university attended.

Graduate Application Deadlines

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<tr>
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<th>Spring</th>
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Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
6 Total Credits

- Complete all of the following
  - Complete at least 1 of the following:
    - POS6736 - Conduct of Political Inquiry (3)
    - POS6746 - Quantitative Methods in Political Research (3)
    - POS7745 - Advanced Quantitative Methods in Political Research (3)
    - CCJ6704 - Research Methods in Criminal Justice (3)
    - CCJ7708 - Advanced Quantitative Methods for Criminal Justice Research (3)

- Complete at least 1 of the following:
  - INR6365 - Seminar on Intelligence (3)
  - INR6366 - The Intelligence Community (3)

Restricted Electives
12 Total Credits

- Complete all of the following
  - All students take four of the following courses. Students can substitute up to two geographic area courses as part of their four-course elective area with approval of the certificate program director.
  - Complete at least 4 of the following:
    - POS6686 - National Security Law (3)
    - POS6743 - Geographic Tools for Political Science Research (3)
    - CPO6058 - Revolution and Political Violence (3)
    - CPO6206 - Comparative Politics of Africa (3)
    - CPO6307 - Issues in Latin American Politics (3)
    - CPO6407 - Comparative Politics of the Middle East (3)
    - CPO6729 - Global Security in the Age of Migration (3)
    - INR6062 - Peace Studies (3)
    - INR6065 - Seminar on War (3)
    - INR6068 - Politics of Civil Wars (3)
    - INR6108 - Seminar in American Foreign Policy (3)
    - INR6136 - Seminar in American Security Policy (3)
    - INR6137 - Terrorism and Politics (3)
    - INR6257 - International Relations of Africa (3)
    - INR6275 - International Politics of the Middle East (3)
    - INR6339 - Strategic Warning Analysis (3)
    - INR6346 - Politics of International Terrorism (3)
    - INR6356 - Environmental Security (3)
    - INR6726 - Political Behavior in International Conflict (3)
    - CCJ6027 - Criminal Justice Responses to Terrorism (3)
    - CCJ6027 - Criminal Justice Responses to Terrorism (3)
    - CCJ6074 - Investigative and Intelligence Analysis: Theory and Methods (3)
    - CJE6688 - Cyber Crime and Criminal Justice (3)

Grand Total Credits: 18

Interactive Entertainment MS
College
College of Sciences

Department
Nicholson School of Communication and Media

Program Website
https://fiea.ucf.edu/

Program Handbook
Interactive Entertainment MS

Program Contact Information
Benjamin Noel
benjamin.noel@ucf.edu
Telephone: 407-235-3612
CMB 115N

FIEA Admissions
fieaadmission@ucf.edu
Telephone: 407-235-3580
CMB 115F

Is this program available 100% online?
No

Program Description
The Master's of Science in Interactive Entertainment at UCF’s Florida Interactive Entertainment Academy (FIEA) teaches artists, programmers, and producers the techniques, tools, and skills to succeed in the gaming industry. The program provides specific skills in the area of game design, programming, 3-D artistry, as well as essential skills such as problem solving, teamwork, and project management.

FIEA provides a team-based, industry-oriented education in a world-class facility located at the UCF Downtown campus in Orlando. Student production teams are mentored by industry trained faculty who provide instruction in game design, level design, technical design, creative collaboration, rapid prototyping, 3-D animation and modeling, technical art, motion capture, software engineering, legal and ethical issues, preproduction, and postmortems. Graduates have access to internship and venture opportunities and job interviews with game and media companies from across the country.

The Interactive Entertainment MS degree requires a minimum of 30 credit hours beyond the bachelor’s degree including 12 credit hours of core courses, 9 credit hours of specialization, a practicum and a capstone experience.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A portfolio of prior work as it relates to their area of specialization (art, programming, production, etc.) sent directly to the Florida Interactive Entertainment Academy.
- Applicants must submit 3 personal references. These references should be willing and able to attest to your academic, professional and personal achievements. These references need to include the following info:
  - Reference Name
  - Email address
  - Phone number
  - Relationship to applicant

This program admits students in the fall semesters into production teams. Students will be selected based on the skills they possess and contributions they can make to the production team.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Because of the high volume of portfolios received, we regret that we cannot offer individual feedback on the materials that are submitted as part of the application process.
Graduate Application Deadlines

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<thead>
<tr>
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<th>Fall</th>
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<th>Summer</th>
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Application Deadlines Notes
*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core
12 Total Credits

- Complete all of the following
  - Complete the following:
    - DIG5529C - Production for Media (3)
    - DIG5548C - Rapid Prototype Production I (3)
    - DIG5856 - Experimentation, Application and Innovation in Games (3)
    - DIG6547C - Preproduction and Prototyping (3)
  - The foundation of the degree is the four-course core sequence that focuses on team-based learning. This sequence is designed to provide declarative, procedural, and strategic knowledge in a variety of issues related to game design. These include creative collaboration, rapid prototyping, 3-D animation and modeling, documentation, software engineering, legal and ethical issues, preproduction, and postmortems.

Specialization
9 Total Credits

- Complete 1 of the following
  - Specialization courses help prepare students in their chosen field (Art, Production or Programming) by covering the details of each discipline. Art classes help students develop aesthetic and technical skills necessary to create compelling visuals for the entertainment industry. Programming classes focus on software engineering techniques as they apply to interactive entertainment products, while production classes focus on the specifics of game design as well as project management. Students take all three courses in their chosen specialization. Courses are listed in order of term offered: Fall Spring Summer
  - Art Specialization
    - Complete the following:
      - DIG5348C - Digital Asset Creation (3)
      - DIG6559C - Advanced Digital Asset Creation (3)
      - DIG6589C - Digital Asset Portfolio Development (3)
  - Production Specialization
    - Complete the following:
      - DIG5557C - Production and Design I (3)
      - DIG6558 - Production and Design II (3)
      - DIG6099C - Media Distribution (3)
  - Programming Specialization
Complete the following:
- DIG5637 - Game Programming Fundamentals (3)
- DIG6638 - Advanced Game Programming (3)
- DIG6635 - Applied Programming Mechanics (3)

Capstone
3 Total Credits
- Complete all of the following
  - The capstone experience applies the concepts and theories learned to produce a large-scale project. The target deliverable is a playable demonstration of a game that simulates the core experience and demonstrates the key features of the project's vision. The course concludes with a special event premiering the final project to the FIEA community and invited guests.
  - Complete the following:
    - DIG6718C - Interactive Entertainment Project (3)

Practicum
6 Total Credits
- Complete all of the following
  - The practicum is supervised training supplementing theoretical and practical experiences involving new research developments or partnerships within the gaming industry. Students may participate on a research team exploring new ideas in interactive entertainment with industry partners, working at an on-site internship with a game company, developing a start-up entity, or working with a faculty member on research in an area of interest.
  - Complete at least 1 of the following:
    - DIG6944C - Game Design Practicum (6)
    - DIG6947C - Digital Venture Practicum (6)

Independent Learning
0 Total Credits
- Both the capstone course and the practicum provide independent learning experiences. The capstone experience is a project-based class that features a game demonstration. The practicum allows students to work with industry partners, in an internship, starting a new venture, or to conduct research with a faculty member.

Grand Total Credits: 30

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information
Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Mathematical Science Graduate Certificate

College
College of Sciences

Department
Department of Mathematics
Program Website
http://math.ucf.edu

Program Contact Information
Qiyu Sun
Professor
qiyu.sun@ucf.edu
Telephone: 407-823-4839
PO Box 161364

Is this program available 100% online?
Yes

UCF Online
Please note: Mathematical Science Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description
The Graduate Certificate in Mathematical Science is designed to prepare students to teach college-level mathematics in high schools or colleges.

All required courses will be offered to accommodate distance learning by posting recorded lectures and offering scheduled online problem sessions and office hours.

The Mathematical Science certificate requires six graduate courses (18 credit hours), including 9 credit hours of required courses and 9 credit hours of elective courses.

Total Credit Hours Required: 18 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Mathematical Science Graduate Certificate</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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</tr>
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Anthony Tufano
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Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
9 Total Credits

- Complete at least 3 of the following:
  - MAA5210 - Topics in Advanced Calculus (3)
  - MAS5145 - Advanced Linear Algebra and Matrix Theory (3)
  - MTG5253 - Introduction to Differential Geometry (3)
  - MAA6405 - Complex Variables (3)
  - MAT5712 - Scientific Computing (3)
  - MAP5426 - Special Functions (3)

Elective Courses
9 Total Credits

- Earn at least 9 credits from the following types of courses:
  Students should take three graduate-level courses offered by the Department of Mathematics and/or the Department of Statistics at UCF, with at most two elective courses from the Department of Statistics.

Grand Total Credits: 18

Mathematical Science MS

College
College of Sciences

Department
Department of Mathematics

Program Website
https://math.cos.ucf.edu/graduate/

Program Handbook
Mathematical Science MS

Program Contact Information
Qiyu Sun
Professor
qiyu.sun@ucf.edu
Telephone: 407-823-4839
PO Box 161364

Is this program available 100% online?
No

Program Description
The Master of Science in Mathematical Science provides a broad base in applied, financial and industrial mathematics.

Students in the program can specialize in one of many aspects of mathematics, including Approximation Theory, Applied and Computational Harmonic Analysis, Big Data and Mathematical Statistics, Combinatorics and Graph Theory, Commutative Algebra and Algebraic Geometry, Control and Optimization, Differential and Symplectic Geometry, Fluid and Plasma Dynamics, Functional Analysis, Inverse and Ill-posed Problems, Mathematical Biology, Mathematical Finance, Nonlinear Waves and Nonlinear Dynamics, Numerical Analysis, Orthogonal Polynomials, Partial Differential Equations, Probability and Stochastic Analysis, and Tomography and Medical Imaging.

This degree has 2 tracks: Financial Mathematics Track and Industrial Mathematics Track. Please scroll to the bottom of this page for further details on these Tracks.

The Mathematical Science MS program requires 30 credit hours minimum beyond the bachelor's degree. There are two options for the master's degree: thesis and nonthesis.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites
A working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), and maturity in the language of advanced calculus (at the level of MAA 4226).
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), and maturity in the language of advanced calculus (at the level of MAA 4226).

Students who find they are not adequately prepared in one or more of the required mathematical subject areas can select appropriate courses from the undergraduate curriculum to make up such deficiencies. Such courses, unless specially approved, will not count toward the graduate degree. Applicants not qualified for regular status may be admitted initially to the university in a nondegree-seeking status. Transfer of credits from other programs will be considered on a course-by-course basis.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant’s abilities, past performance, recommendations, match of this program and faculty expertise to the applicant’s career/academic goals, and the applicant’s potential for completing the degree.

Graduate Application Deadlines

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<th>Mathematical Science MS</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - MAA5210 - Topics in Advanced Calculus (3)
  - MAP6385 - Applied Numerical Mathematics (3)
  - MAA5145 - Advanced Linear Algebra and Matrix Theory (3)
  - MAT5712 - Scientific Computing (3)

Restricted Elective Sequences
6 Total Credits

- Complete 1 of the following
  - After the completion of the core courses, the program requires all students to complete one of the following two-semester sequences. The following shows examples of acceptable sequences using current courses. We expect that other sequences will be developed as our program grows. Note that some sequences consist of a core course plus one elective, while others consist of two electives. Thus, the credit hours in this requirement are variable (3 to 6 credit hours).
Complete the following:
- MAA6405 - Complex Variables (3)
- MAA6404 - Complex Analysis (3)

Complete the following:
- MAD5205 - Graph Theory I (3)
- MAD6309 - Graph Theory II (3)

Complete the following:
- MAP5336 - Ordinary Differential Equations and Applications (3)
- MAP6356 - Partial Differential Equations (3)

Complete the following:
- MAA6306 - Real Analysis (3)
- MAA6506 - Functional Analysis (3)

Complete the following:
- MAA6238 - Measure and Probability I (3)
- MAA6245 - Measure and Probability II (3)

Complete the following:
- MAP6111 - Mathematical Statistics (3)
- MAA7239 - Asymptotic Methods in Mathematical Statistics (3)

Complete the following:
- MASS11 - Algebra I (3)
- MAS6312 - Algebra II (3)

Complete the following:
- MTG5256 - Differential Geometry (3)
- MTG6345 - Algebraic Topology (3)

Complete the following:
- MAP6197 - Mathematical Introduction to Deep Learning (3)
- MAP6195 - Mathematical Foundations for Massive Data Modeling and Analysis (3)

Unrestricted Electives
6 Total Credits

Earn at least 6 credits from the following types of courses:
Unrestricted electives should be chosen in consultation with the graduate program director or the student's thesis adviser and may be chosen from the suggested options: Approximation Theory, Applied and Computational Harmonic Analysis, Big Data and Mathematical Statistics, Combinatorics and Graph Theory, Commutative Algebra and Algebraic Geometry, Control and Optimization, Differential and Symplectic Geometry, Fluid and Plasma Dynamics, Functional Analysis, Inverse and Ill-posed Problems, Mathematical Biology, Mathematical Finance, Nonlinear Waves and Nonlinear Dynamics, Numerical Analysis, Orthogonal Polynomials, Partial Differential Equations, Probability and Stochastic Analysis, and Tomography and Medical Imaging. A list of courses for these elective options can be obtained from the graduate program director. Approved graduate courses outside the department may also be used.

Thesis/Nonthesis Option
6 Total Credits

Complete 1 of the following
Thesis Option

Earn at least 6 credits from the following types of courses:
MAP 6971 - Thesis in this option, the MS degree requires a total of at least 30 credit hours comprised of at least 24 credit hours of course work and 6 credit hours of thesis. This includes the 15 credit hours of the core courses and 3-6 credit hours of a two-course sequence. No more than 6 credit hours of independent study or directed research may be credited toward the degree. It is strongly recommended that the student select a thesis adviser and establish a program of study by the completion of the core courses. With the help of a thesis adviser, the student will form a thesis committee of three members, of which at least two must be from the Department of Mathematics. It is recommended that the thesis topic have potential for industrial applications. An oral defense of the thesis will be required.

Nonthesis Option

Earn at least 6 credits from the following types of courses:
Nonthesis students will take an additional 6 credit hours of electives. The electives should be chosen in consultation with the graduate program director. Nonthesis students will receive independent learning experiences by taking one of the two-semester sequences, where they apply mathematical principles to independent projects. Other courses that also have substantial research projects include MAP 5117 - Mathematical Modeling, MAT 5712 - Scientific Computing and MAP 6111 - Mathematical Statistics, MAP 6195, MAP 6197, and may be taken as electives. No more than 3 credit hours of independent study may be credited toward the degree. It is strongly recommended that the student select an academic adviser and establish a program of study by the completion of the core courses. In addition, the nonthesis student must pass a comprehensive written examination (by passing the qualifying/comprehensive examination at or above the MS level) based on the core courses. Two attempts at the examination are permitted.

Independent Learning
In the Mathematical Science MS program, the thesis option provides an independent learning experience through directed research, reading published research papers, and writing and defending the thesis. The nonthesis option requires students to take one of the two-semester sequences, where they apply mathematical principles to independent projects.

Grand Total Credits: **30**

### Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

### Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

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### Mathematical Science MS - Mathematical Science MS, Financial Mathematics Track

**College**

College of Sciences

**Department**

Department of Mathematics

**Track Website**

https://math.cos.ucf.edu/graduate/

**Track Handbook**

Mathematical Science MS

**Track Contact Information**

Qiyu Sun
Professor
qiyu.sun@ucf.edu
Telephone: 407-823-4839
PO Box 161364

**Is this track available 100% online?**

No

**Track Description**

The Financial Mathematics track in the Mathematical Science MS program prepares graduate students to pursue careers in the finance industry by providing them with high quality professional training in of mathematics applicable to finance.

This track has three components: training in the necessary mathematics to pursue a career in financial mathematics, professional training in financial mathematics, and a required experiential component.

**Total Credit Hours Required:** **30 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

- Working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), proficiency in a modern computer language, elementary probability, and statistics.

The following courses are required as prerequisites to this track: Calculus with Analytic Geometry I, II, and III; Differential Equations; Linear and Matrix Algebra (or a course equivalent); proficiency in a computer language; Elementary Probability and Statistics. A summer program of two courses, which cannot be used as part of the program of study for this degree, is available for students who have deficiencies in these prerequisite areas.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), proficiency in a modern computer language, elementary probability, and statistics.

Students who are not adequately prepared in one or more of the required prerequisite subject areas can make up such deficiencies through a summer remedial program. Such courses, unless specially approved, will not count toward the graduate degree. Applicants not qualified for regular status may be admitted initially to the university in a non-degree seeking status. Transfer of credits from other programs will be considered on a course-by-course basis.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano
gradmissions@ucf.edu
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Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
21 Total Credits

- Complete the following:
  - MAP5606 - Differential Equations for Financial Mathematics (3)
  - MAP5612 - Computational Methods for Financial Mathematics I (3)
  - MAP5641 - Financial Mathematics I (3)
  - MAP5931 - Proseminar for Financial Mathematics (1)
  - MAP5933 - Seminar in Financial Mathematics (2)
  - MAP6616 - Computational Methods for Financial Mathematics II (3)
  - MAP6642 - Financial Mathematics II (3)
  - MAP6646 - Risk Management for Financial Mathematics (3)

Restricted Electives
6 Total Credits

- Complete at least 2 of the following:
  - FIN6406 - Strategic Financial Management (3)
  - FIN6515 - Analysis of Investment Opportunities (3)
  - MAP6207 - Optimization Theory (3)
  - STA6857 - Applied Time Series Analysis (3)
  - STA5703 - Data Mining Methodology I (3)
  - STA5825 - Stochastic Processes and Applied Probability Theory (3)

Experiential Requirement
3 Total Credits

- Earn at least 3 credits from the following types of courses:
  Students will demonstrate experience in the application of mathematics to industrial problems. This demonstration can be accomplished either through the satisfactory completion of an internship in financial mathematics (MAP 6946), or through satisfactory performance at an approved external/internal workshop in financial mathematics (MAP 6946). Students are required as part of the experiential requirement to deliver an oral presentation on the experience. Students are very strongly encouraged to fulfill this requirement through an internship experience.

Grand Total Credits: 30

Track Details

The Financial Mathematics program consists of 30 credit hours of courses and internship. Students will work with an adviser to design a program of study, which will be presented to the program director for approval. If a student has an industrial sponsor, the student's program of study will be developed in consultation with a representative from the student's sponsoring company. Students are expected to obtain hands-on experience. The capstone requirement for this track is fulfilled by students completing an experiential learning requirement (3 credit hours). At least one-half of the program courses must be taken at the 6000 level.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu
College of Sciences

Department of Mathematics

Track Website
https://math.cos.ucf.edu/graduate/

Track Handbook
Mathematical Science MS

Track Contact Information
Qiyu Sun
Professor
qiyu.sun@ucf.edu
Telephone: 407-823-4839
PO Box 161364

Is this track available 100% online?
No

Track Description
The Industrial Mathematics track in the Mathematical Science MS program prepares graduate students to pursue careers in industry by providing them with high quality professional training in branches of mathematics valuable to high-technology industries. This track has three components: training in the necessary mathematics to pursue a career in industrial mathematics, professional training to prepare for the environment of the industrial workplace, and a required experiential component.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
The following courses are required as prerequisites to this track: Calculus with Analytic Geometry I, II, and III; Differential Equations; Linear and Matrix Algebra (or a course equivalent); proficiency in a computer language (C or Matlab); Advanced Calculus and Statistics.

A working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), and maturity in the language of advanced calculus (at the level of MAA 4226).

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- A working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), and maturity in the language of advanced calculus (at the level of MAA 4226).

Students who find they are not adequately prepared in one or more of the required mathematical subject areas can select appropriate courses from the undergraduate curriculum to make up such deficiencies. Such courses, unless specially approved, will not count toward the graduate degree. Applicants not qualified for regular status may be admitted initially to the university in a nondegree-seeking status. Transfer of credits from other programs will be considered on a course-by-course basis.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 Total Credits

- Complete the following:
  - MAA5210 - Topics in Advanced Calculus (3)
  - MAS5145 - Advanced Linear Algebra and Matrix Theory (3)
  - MAT5712 - Scientific Computing (3)
  - MAP6385 - Applied Numerical Mathematics (3)

Mathematics Restricted Electives
12 Total Credits

- Complete at least 4 of the following:
  - MAA6508 - Hilbert Spaces with Applications (3)
  - MAD5205 - Graph Theory I (3)
  - MAP5117 - Mathematical Modeling (3)
  - MAP5336 - Ordinary Differential Equations and Applications (3)
  - MAP6111 - Mathematical Statistics (3)
  - MAP6197 - Mathematical Introduction to Deep Learning (3)
  - MAP6195 - Mathematical Foundations for Massive Data Modeling and Analysis (3)
  - MAP6207 - Optimization Theory (3)
  - MAP6356 - Partial Differential Equations (3)

Professional Development Restricted Electives and Internship
6 Total Credits

- Complete 1 of the following
  - Option 1
    - Complete at least 2 of the following:
      - ENT5016 - New Venture Design (3)
      - ENT6617 - Innovation and Entrepreneurship Strategy (3)
      - ENT5946 - Small Business Consulting (3)
      - MAN6245 - Organizational Behavior and Development (3)
  - Option 2
    - Complete all of the following
      - ENT5016 - New Venture Design (3)
      - ENT6617 - Innovation and Entrepreneurship Strategy (3)
      - ENT5946 - Small Business Consulting (3)
      - MAN6245 - Organizational Behavior and Development (3)
      - Earn at least 3 credits from the following types of courses:
        An industrial internship (MAP 6946) with satisfactory completion
  - Option 3
    - Complete all of the following
      - ENT5016 - New Venture Design (3)
      - ENT6617 - Innovation and Entrepreneurship Strategy (3)
      - ENT5946 - Small Business Consulting (3)
      - MAN6245 - Organizational Behavior and Development (3)
      - Complete at least 1 of the following:
        - MAP5117 - Mathematical Modeling (3)
        - MAP6197 - Mathematical Introduction to Deep Learning (3)
        - MAP6195 - Mathematical Foundations for Massive Data Modeling and Analysis (3)

Grand Total Credits: 30

Track Details

The program consists of 30 credit hours of courses and internship. Students will work with an adviser to design a program of study, which will be presented to the program director for approval. If a student has an industrial sponsor, the student's program of study will be developed in consultation with a representative from his sponsoring company. Students are expected to obtain hands-on experience. The capstone requirement for this track is fulfilled by students completing an experiential learning requirement (3 credit hours). At least one-half of the program courses must be taken at the 6000 level.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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http://finaid.ucf.edu

Fellowship Information

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Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Mathematics PhD

College
College of Sciences

Department
Department of Mathematics

Program Website
https://math.cos.ucf.edu/graduate/

Program Handbook
Mathematics PhD

Program Contact Information

Qiyu Sun
Professor
qiyu.sun@ucf.edu
Telephone: 407-823-4839
PO Box 161364

Is this program available 100% online?

No
Program Description

The Mathematics PhD program prepares students with a broad base in pure, applied and industrial mathematics.

The Doctor of Philosophy degree in Mathematics is intended to provide a broad base in applied and industrial mathematics. The goal of the program is to produce students who will attain distinction in their fields of research. In order to achieve this, the program has required core courses as well as a set of electives providing cross-disciplinary subjects.

Students in the program can specialize in one of many aspects of mathematics, including Approximation Theory, Applied and Computational Harmonic Analysis, Big Data and Mathematical Statistics, Combinatorics and Graph Theory, Commutative Algebra and Algebraic Geometry, Control and Optimization, Differential and Symplectic Geometry, Fluid and Plasma Dynamics, Functional Analysis, Inverse and Ill-posed Problems, Mathematical Biology, Mathematical Finance, Nonlinear Waves and Nonlinear Dynamics, Numerical Analysis, Orthogonal Polynomials, Partial Differential Equations, Probability and Stochastic Analysis, and Tomography and Medical Imaging. Responding to this wide variety of interests, the program offers flexibility in the composition of the core courses as well as the candidacy examination. The program is comprehensive with opportunities for students to pursue research in a variety of disciplines.

This degree has 1 track: Financial Mathematics Track. Please scroll to the bottom of this page for further details on this Track.

The Mathematics PhD program consists of at least 75 credit hours of course work beyond the bachelor's degree, of which a minimum of 39 hours of formal course work, exclusive of independent study, and 15 credit hours of dissertation research (7980) are required. The program requires 18 credit hours of core courses, and 6 to 12 credit hours in two 2-semester sequences.

**Total Credit Hours Required: 75 Credit Hours Minimum beyond the Bachelor's Degree**

Program Prerequisites

Bachelor's degree in related field.

Students entering the graduate program with regular status are assumed to have a working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), and maturity in the language of advanced calculus (at the level of MAA 4226).

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in related field.
- Official, competitive GRE score, taken in the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of the program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Transfer of credits from other programs will be considered on a course-by-course basis. Additionally, students entering the graduate program with regular status are assumed to have a working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), and maturity in the language of advanced calculus (at the level of MAA 4226). Students who are not adequately prepared in one or more of these areas can select appropriate courses from the undergraduate curriculum to make up such deficiencies. Such courses, unless specially approved, do not count toward the graduate degree.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

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Graduate School Contact

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Millican Hall 230
Online Application
Graduate Admissions

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Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-S8
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete all of the following
  - All students are required to complete the following courses with grade of "B" or better.
  - Complete the following:
    - MAA5237 - Mathematical Analysis (3)
    - MAT5712 - Scientific Computing (3)
    - MAA5145 - Advanced Linear Algebra and Matrix Theory (3)
    - MAP6385 - Applied Numerical Mathematics (3)
    - MAA6306 - Real Analysis (3)
  - Complete at least 1 of the following:
    - MAA6405 - Complex Variables (3)
    - MAP5336 - Ordinary Differential Equations and Applications (3)
    - MAA6506 - Functional Analysis (3)
    - MAP6111 - Mathematical Statistics (3)

Restricted Electives
12 Total Credits

- Complete 2 of the following
  - All students are required to complete two 2-semester sequences. Sequences are pairs of related courses that give advanced knowledge in an area of mathematics. Each sequence must be approved by the dissertation adviser, dissertation committee, and the graduate program director. The following shows examples of acceptable sequences using current courses. We expect that other sequences will be developed as our program grows. Note that some sequences consist of a core course plus one elective, while others consist of two electives. Thus, the credit hours in this requirement are variable (6 to 12 credit hours). A written examination on two such sequences will be required as part of the candidacy examination (see more details in Candidacy Examination section.
  - Complete the following:
    - MAA6405 - Complex Variables (3)
    - MAA6404 - Complex Analysis (3)
  - Complete the following:
    - MAD5205 - Graph Theory I (3)
    - MAD5205 - Graph Theory I (3)
  - Complete the following:
    - MAP5336 - Ordinary Differential Equations and Applications (3)
    - MAP6356 - Partial Differential Equations (3)
  - Complete the following:
    - MAA6238 - Measure and Probability I (3)
    - MAA6245 - Measure and Probability II (3)
  - Complete the following:
    - MAP6111 - Mathematical Statistics (3)
    - MAA7239 - Asymptotic Methods in Mathematical Statistics (3)
  - Complete the following:
    - MAA6306 - Real Analysis (3)
    - MAA6506 - Functional Analysis (3)
Complete the following:
- MAP6195 - Mathematical Foundations for Massive Data Modeling and Analysis (3)
- MAP6197 - Mathematical Introduction to Deep Learning (3)

Complete the following:
- MTG5256 - Differential Geometry (3)
- MTG6345 - Algebraic Topology (3)

Unrestricted Electives
30 Total Credits
- Earn at least 30 credits from the following types of courses:
  Electives are chosen in consultation with the student's advisory committee and may be chosen from the suggested options: Discrete Mathematics, General Applied Mathematics, Mathematical Computer Tomography, Image Processing and Computer Graphics, Mathematical Finance, Mathematical Physics, Pure Mathematics, and Mathematical Statistics. A list of elective course options can be obtained from the graduate program director. Courses taken outside the Mathematics department must be approved by the adviser and graduate program director. These courses are selected in consultation with the student's advisory committee.

Dissertation
15 Total Credits
- Earn at least 15 credits from the following types of courses:
  XXXX 7980 Dissertation Research 15 Credit Hours (minimum)

Examinations
0 Total Credits
No Rules
Qualifying Examination
0 Total Credits
- The qualifying/comprehensive examination is based on the core course work (MAA 5237 and MAS 5145 - Advanced Linear Algebra and Matrix Theory). To continue in the PhD program students must pass the examination at the PhD level. Two attempts are permitted. The examination will be administered twice a year: one in the Fall semester and the other in the Spring semester. To take the examination, students must have earned a "B" or better in each core course, must have a minimum grade point average of 3.0 (out of 4.0) in the program, or must obtain permission from the graduate program director. Students will normally take the examination after taking the core courses MAA 5237 and MAS 5145, and are expected to have passed it by the end of the second year of study unless a written request for a postponement has been approved by the Graduate Committee at least two months before the examination date. The student must pass the Qualifying Examination in at most two attempts. It is strongly recommended that the student select a dissertation adviser by the completion of 18 credit hours of course work, and it is strongly recommended that the student works with the dissertation adviser to form a dissertation committee within two semesters of passing the Qualifying Examination.

Candidacy Examination
0 Total Credits
- The Candidacy Examination consists of a written examination based on the materials from two of the selected two-semester sequence courses taken by the students beyond the core courses on Mathematical Analysis and Advanced Linear Algebra (MAA 5237, MAS 5145). A committee formed or selected by the Graduate Committee or the graduate program director is responsible for preparing and grading the written examinations. After passing the candidacy examination and meeting other requirements, the student can register for Doctoral Dissertation (MAP 7980 or MAA 7980). A minimum of 15 Doctoral Dissertation credit hours are required. The Candidacy Examination can be attempted after passing the qualifying examination. The Candidacy Examination must be completed within three years after passing the qualifying examination. A student must successfully pass the Candidacy Examination within at most two attempts.

Admission to Candidacy
0 Total Credits
- The following are required to be admitted to candidacy and enroll in dissertation hours: Completion of all course work, except for dissertation hours. Successful completion of the candidacy examination. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study.

Dissertation
0 Total Credits
No Rules
Dissertation Proposal Examination
0 Total Credits
- After passing the candidacy examination, the student will prepare a dissertation proposal and orally present it to the dissertation advisory committee for approval. The proposal will include a description of the research performed to date and an agenda for the research planned to be completed for the dissertation. In addition to standards of correctness, indicating a suitable level of mastery of the material of the area of the dissertation, and suitability of the proposed dissertation topic, the presentation must meet current standards for professional presentations within the discipline of mathematics. For the successful completion of the Dissertation Proposal Examination the presentation must be judged as passing the requirements.
for the examination by the majority of the dissertation committee. This exam must be passed within 18 months of passing the candidacy examination and not later than the end of the sixth year of graduate study. A candidate must pass this examination within at most two attempts.

Dissertation Defense
0 Total Credits

- Upon completion of a student's research, the student's committee schedules an oral defense of the dissertation. Most students complete the program within five years after obtaining their bachelor's degree. Students are expected to complete the dissertation in no more than seven years from the date of admission to the program.

Independent Learning
0 Total Credits

- The required 15 credit hours of dissertation will provide ample opportunities for students to gain the independent learning experience through studying published research papers and deriving, on their own, new and meaningful research results.

Grand Total Credits: 75

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

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The department offers over 20 Graduate Teaching Assistantships every year on a competitive basis. A few Graduate Research Assistantships are also available for qualified students.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Mathematics PhD - Mathematics PhD, Financial Mathematics Track

College
College of Sciences

Department
Department of Mathematics

Track Website
https://math.cos.ucf.edu/graduate/

Track Handbook
Mathematics PhD

Track Contact Information
Qiyu Sun
Professor
qiyu.sun@ucf.edu
Telephone: 407-823-4839
PO Box 161364
Is this track available 100% online?
No

Track Description
The Financial Mathematics track in the Mathematics PhD program is designed to prepare students for research and leadership positions in industry, government, non-governmental organizations, and academia requiring employment of financial mathematics.

The Mathematics PhD program consists of at least 75 credit hours of course work beyond the bachelor's degree, of which a minimum of 48 hours of formal course work, exclusive of independent study, are required. The program requires 36 credit hours of core courses and 15 credit hours of dissertation research (7980).

Total Credit Hours Required: 75 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
Bachelor's degree in related field.

Students entering the graduate program with regular status are assumed to have a working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), boundary value problems, statistics, computer programming, and maturity in the language of advanced calculus (at the level of MAA 4226).

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Bachelor's degree in related field.
- Official, competitive GRE score, taken in the last five years.
- Three letters of recommendation.
- Goal statement.
- Résumé.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of the program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Transfer of credits from other programs will be considered on a course-by-course basis. Additionally, students entering the graduate program with regular status are assumed to have a working knowledge of undergraduate calculus, differential equations, linear algebra (or matrix theory), boundary value problems, statistics, computer programming, and maturity in the language of advanced calculus (at the level of MAA 4226). Students who are not adequately prepared in one or more of these areas can select appropriate courses from the undergraduate curriculum to make up such deficiencies. Such courses, unless specially approved, do not count toward the graduate degree.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Track</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<td>Domestic Applicants</td>
<td>Jan 15</td>
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<td>International Applicants</td>
<td>Jan 15</td>
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<td>Jul 1</td>
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</tr>
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</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
36 Total Credits

- Complete all of the following
  - All students are required to complete the following courses with grade of "B" or better.
  - Complete the following:
    - MAA5237 - Mathematical Analysis (3)
    - MAA5237 - Advanced Linear Algebra and Matrix Theory (3)
    - MAP5641 - Financial Mathematics I (3)
    - MAP6642 - Financial Mathematics II (3)
    - MAP5612 - Computational Methods for Financial Mathematics I (3)
    - MAP6616 - Computational Methods for Financial Mathematics II (3)
    - MAP6646 - Risk Management for Financial Mathematics (3)
    - MAP6606 - Differential Equations for Financial Mathematics (3)
    - MAP6195 - Mathematical Foundations for Massive Data Modeling and Analysis (3)
    - MAP6207 - Optimization Theory (3)
    - STA6857 - Applied Time Series Analysis (3)
    - MAP5931 - Proseminar for Financial Mathematics (1)
    - MAP5933 - Seminar in Financial Mathematics (2)

- The remaining credit hours consist of additional dissertation research (7980 or 7919), at least 15 credit hours of regular classroom elective courses, and at most 12 credit hours of independent study or independent directed research. Students who pass the qualifying examination may substitute some of the core courses with the approval of the adviser and the graduate program director.

Elective Courses
24 Total Credits

- Earn at least 24 credits from the following types of courses:
  Elective courses require the approval of the adviser and the graduate program director; up to 12 credit hours of elective courses may be taken outside the department. At least one-half of the program courses must be taken at the 6000 level. At least 12 hours of elective course work must be formal course work, exclusive of independent study. Electives are chosen in consultation with the student's advisory committee and may be chosen from the suggested options: Discrete Mathematics, General Applied Mathematics, Mathematical Computer Tomography, Image Processing and Computer Graphics, Mathematical Finance, Mathematical Physics, Pure Mathematics, Data Science, and Mathematical Statistics. A list of elective course options can be obtained from the graduate program director. Courses that are taken outside the Mathematics department must be approved by both the adviser and graduate program director. These courses are selected in consultation with the student's advisory committee.

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  MAP 7980 - Dissertation Research 15 Credit Hours (minimum) After passing the candidacy examination and meeting the other requirements that are required for admission to candidacy, the student can register for Doctoral Dissertation (MAP 7980). A minimum of 15 Doctoral Dissertation credit hours are required for the degree.

Examinations
0 Total Credits
No Rules
Qualifying Examination
0 Total Credits
The qualifying/comprehensive examination is based on the core course work. To continue in the PhD program, students must pass the examination at the PhD level. Two attempts are permitted. The examination will be administered twice a year: one in the Fall semester and the other in the Spring semester. To take the examination, students must have earned a “B” or better in each core course, must have a minimum grade point average of 3.0 (out of 4.0) in the program, or must obtain permission from the graduate program director. Students will normally take the examination after the first year and are expected to have passed it by the end of the second year of study, unless a written request for a postponement has been approved by the Graduate Committee at least two months before the examination date. The student must pass the Qualifying Examination in at most two attempts. It is strongly recommended that the student select a dissertation adviser by the completion of 18 credit hours of course work, and it is strongly recommended that the student works with the dissertation adviser to form a dissertation committee within two semesters of passing the Qualifying Examination.

Candidacy Examination
0 Total Credits

The Candidacy Examination consists of a written examination based on the materials from two selected two-semester sequence courses taken by the students. A committee formed or selected by the Graduate Committee or the graduate program director is responsible for preparing and grading the written examinations. Each sequence that is selected for the candidacy examination must be approved by the dissertation adviser, the dissertation committee, and the graduate program director. Students in the Financial Mathematics Track will ordinarily select one of the sequences for their candidacy examination to be MAP 5641/MAP6642 Financial Mathematics I and II, and MAP5612/MAP6616 Computational Methods for Financial Mathematics I and II. The Candidacy Examination can be attempted after passing the qualifying examination. The Candidacy Examination must be completed within three years after passing the qualifying examination. A student must successfully pass the Candidacy Examination within at most two attempts.

Admission to Candidacy
0 Total Credits

The following are required to be admitted to candidacy and enroll in dissertation hours: Completion of all course work, except for dissertation hours. Successful completion of the candidacy examination. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study.

Dissertation
0 Total Credits
No Rules

Dissertation Proposal Examination
0 Total Credits

After passing the candidacy examination, the student will prepare a dissertation proposal and orally present it to the dissertation advisory committee for approval. The proposal will include a description of the research performed to date and an agenda for the research planned to be completed for the dissertation. In addition to standards of correctness, indicating a suitable level of mastery of the material of the area of the dissertation, and suitability of the proposed dissertation topic, the presentation must meet current standards for professional presentations within the discipline of mathematics. For the successful completion of the Dissertation Proposal Examination, the presentation must be judged as passing the requirements for the examination by the majority of the dissertation committee. This exam must be passed within 18 months of passing the candidacy examination and not later than the end of the sixth year of graduate study. A candidate must pass this examination within at most two attempts.

Dissertation Defense
0 Total Credits

Upon completion of a student’s research, the student’s committee schedules an oral defense of the dissertation. Most students complete the program within five years after obtaining their bachelor’s degree. Students are expected to complete the dissertation in no more than seven years from the date of admission to the program.

Independent Learning
0 Total Credits

The required 15 credit hours of dissertation will provide ample opportunities for students to gain the independent learning experience through studying published research papers and deriving, on their own, new and meaningful research results.

Grand Total Credits: 75

Financial Information

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2021-2022 Graduate Catalog
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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Network Analysis and Applications Graduate Certificate

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Program Website
https://sciences.ucf.edu/politics/

Program Contact Information

Jacopo Baggio
Associate Professor
jacopo.baggio@ucf.edu
Telephone: 407-823-2608
HPH 302

Is this program available 100% online?

No

Program Description

The School of Politics, Security and International Affairs, the School of Public Administration, and the Department of Computer Science, offer a Graduate Certificate in Network Analysis and Applications that consists of 12 credit hours at the graduate level. Upon completing the certificate, students will be able to analyze networks either via pre-determined network analysis programs, by implementing the analysis via packages available in libraries in a suitable programming language, or by programming the analysis from scratch.

The Graduate Certificate in Network Analysis and Applications consists of 12 credit hours at the graduate level. Of these, 3 credit-hours are acquired via the core-course, 6 credit hours must be chosen from the list of restricted electives (see below). 3 additional credit hours are elective courses that can include a) one more of the courses listed as restricted electives; b) another elective course to be approved by the program advisor; c) independent studies with an affiliated faculty member to be chosen with approval from the program advisor and the selected faculty member.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

To be admitted to the certificate program students will need to have a Bachelor's degree from an accredited institution recognized by UCF. To be admitted students will either 1) have graduate standing at UCF, or 2) apply to the certificate by including a statement of interest and transcripts from their Bachelor's Degree. Application admissions for non-graduate students at UCF will be decided by the program coordinator. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. Students must submit all requested material by the deadline; materials received after the deadline may not be considered. Admission to this certificate program is competitive; applicants are not guaranteed admission.

All applicants to this certificate program will be required to submit:

- An academic goal statement
- A transcript

These documents, with the exception of the transcript, must be attached to the application. The academic goal statement will be used as a sample of the applicant's writing ability. While there is no set word limit, the statement should address the applicant's interest in pursuing the certificate program and fully discuss any experience that they have had in the field.

2021-2022 Graduate Catalog
**Graduate Application Deadlines**

<table>
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<th>Network Analysis and Applications Graduate Certificate</th>
<th>*Fall Priority</th>
<th>Fall</th>
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<td>Jul 1</td>
</tr>
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<td></td>
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</tbody>
</table>

**Graduate School Contact**

**Anthony Tufano**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

- GRE: 5233  
- GMAT: RZT-HT-58  
- TOEFL: 5233  
- ETS PPI: 5233

**Degree Requirements**

**Required Course**

- 3 Total Credits
  - Complete the following:
    - IDS6606 - Approaches to Network Analysis and Applications (3)

**Restricted Electives**

- 9 Total Credits
  - Complete all of the following
    - Students can substitute one restricted elective with another elective course to be approved by the program advisor; or with an independent study course with an affiliated faculty member to be chosen with approval from the program advisor and the selected faculty member.
    - Complete at least 3 of the following:
      - COP5537 - Network Optimization (3)  
      - CNT5805 - Network Science (3)  
      - CAP6315 - Social Media and Network Analysis (3)  
      - POS6729 - Political Network Analysis (3)  
      - PAD6829 - Network Analysis in Public Policy and Management (3)  
      - PAD7827 - Network Governance (3)
    - Students may also take XXX 6908 Independent Study

**Grand Total Credits: 12**

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**Physics MS**

**College**

College of Sciences

**Department**

Department of Physics

**Program Website**

https://sciences.ucf.edu/physics/
Program Handbook

Physics MS

Program Contact Information

Abdelkader Kara PhD
Professor
Abdelkader.Kara@ucf.edu
Telephone: 407-823-5146
PSB 303

Esperanza Soto Arcino
Graduate Admissions Coordinator
soto@ucf.edu
Telephone: 407-823-5146
PSB 432

Is this program available 100% online?

No

Program Description

The University of Central Florida offers a Master of Science in Physics. Research opportunities are available in condensed matter physics, nanostructure devices, surface science, optical physics, complex systems, biophysics, atomic and molecular physics, physics education and planetary/space science.

This degree has 1 track: Planetary Sciences Track. Please scroll to the bottom of this page for further details on this Track.

The Physics MS program requires a minimum of 30 credit hours beyond the bachelor's degree and offers students a thesis and nonthesis option. All students take 12 credit hours of core courses, and then the remaining 18 credit hours consist of both electives and thesis or directed research according to the option chosen.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

The Master of Science in Physics program is flexibly designed to prepare students for the widest possible range of industrial careers or for further study at the doctoral level.

Program Prerequisites

Students entering the Physics graduate program with regular status are normally expected to have completed coursework generally required for a bachelor's degree in physics, including mechanics, electricity and magnetism, thermal and statistical physics, and quantum mechanics.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Financial support is not usually provided to MS students. Those who are interested in financial support may manifest it in their application or consider applying to the PhD program instead.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Résumé.
- Statement of goals. The final 1-2 paragraphs of each applicant's personal statement should make explicitly clear which research areas and faculty they have interest in working with within our program.
- Three letters of recommendation.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Note: Applicants to the MS Bridge Program that are admitted with a GPA below the minimum required may not exceed 50% of the total number of admitted MS students.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant’s abilities, past performance, recommendations, match of this program and faculty expertise to the applicant’s career/academic goals, and the applicant’s potential for completing the degree.
Graduate Application Deadlines

<table>
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<th>Physics MS</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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**Institution Codes**

- GRE: 5233  
- GMAT: RZT-HT-58  
- TOEFL: 5233  
- ETS PPI: 5233

**Degree Requirements**

**Required Courses**

12 Total Credits

- Complete the following:
  - PHY5606 - Quantum Mechanics I (3)
  - PHY5346 - Electrodynamics I (3)
  - PHY5524 - Statistical Physics (3)
  - PHY6246 - Classical Mechanics (3)

**Elective Courses**

12 Total Credits

- Complete 1 of the following
  - Both thesis and nonthesis students take electives in consultation with their advisers. Out of the 18 elective credit hours at least 12 credit hours of formal course work are required and not more than 6 credit hours of 5000-level elective courses are counted toward the degree. At least 6 credit hours of thesis or 3 credit hours of directed research for the nonthesis option are required. Otherwise, elective selection is intended to be very flexible to meet student needs and interests. Electives may be chosen following one of the suggested specializations below, or a different program of study may be followed with academic adviser approval.
  - Materials Physics Specialization
  - Complete all of the following
    - Earn at least 12 credits from the following:
      - PHY6624 - Quantum Mechanics II (3)
      - PHY6347 - Electrodynamics II (3)
      - PHZ6426 - Condensed Matter Physics I (3)
      - PHZ6428 - Condensed Matter Physics II (3)
      - PHZ5505 - Plasma Physics (3)
      - PHZ5432 - Introduction to Soft Condensed Matter Physics (3)
      - PHYS515 - Physical Basis of Life (3)
      - PHY5933 - Selected topics in biophysics of macromolecules (3)
      - PHZ6420 - First Principles Computational Methods in Condensed Matter Physics (3)
      - PHY6938 - Special Topics (3)
      - EEE5396C - Fabrication of Solid-State Devices (4)
  - Other graduate courses from Physics, Math, Optics, Materials Science, Engineering require approval by the student’s adviser and the Graduate Program Director.
Optical Physics Specialization

- Complete all of the following
  - Earn at least 12 credits from the following:
    - PHY6624 - Quantum Mechanics II (3)
    - PHY6347 - Electrodynamics II (3)
    - PHY6938 - Special Topics (3)
    - OSE6111 - Optical Wave Propagation (3)
    - OSE6115 - Interference and Diffraction (3)
    - OSE6526C - Laser Engineering Laboratory (3)
    - OSE6455C - Photonics Laboratory (3)
    - OSE6347 - Quantum Optics (3)
    - OSE5312 - Light Matter Interaction (3)
  - Other graduate courses from Physics, Math, Optics, Materials Science, Engineering require approval by the student's adviser and the Graduate Program Director

Space Physics Specialization

- Complete all of the following
  - Earn at least 12 credits from the following:
    - PHY6624 - Quantum Mechanics II (3)
    - PHY6347 - Electrodynamics II (3)
    - PHZ5505 - Plasma Physics (3)
    - AST5334 - Extrasolar Planets and Brown Dwarfs (3)
    - EAS5315 - Rocket Propulsion (3)
    - EAS6405 - Advanced Flight Dynamics (3)
    - EAS6507 - Topics of Astrodynamics (3)
    - OSE5041 - Introduction to Wave Optics (3)
    - EEL5820 - Image Processing (3)
  - Other graduate courses from Physics, Math, Optics, Materials Science, Engineering require approval by the student's adviser and the Graduate Program Director.

Theory/Computational Physics Specialization

- Complete all of the following
  - Earn at least 12 credits from the following:
    - PHY6624 - Quantum Mechanics II (3)
    - PHY6347 - Electrodynamics II (3)
    - PHZ6420 - First Principles Computational Methods in Condensed Matter Physics (3)
    - PHY6938 - Special Topics (3)
    - PHZ6426 - Condensed Matter Physics I (3)
    - PHZ6428 - Condensed Matter Physics II (3)
    - PHY6667 - Quantum Field Theory I (3)
    - PHY7669 - Quantum Field Theory II (3)
    - PHZ5505 - Plasma Physics (3)
    - OSE6347 - Quantum Optics (3)
    - OSE5312 - Light Matter Interaction (3)
  - Other graduate courses from Physics, Math, Optics, Materials Science, Engineering require approval by the student's adviser and the Graduate Program Director.

Thesis/Nonthesis Option

- 6 Total Credits
  - Complete 1 of the following
    - Thesis Option
      - Earn at least 6 credits from the following types of courses:
        - PHY 6971 - Thesis Students who choose the thesis option are required to conduct a program of original scientific research or some investigation involving a creative element and to submit a written thesis detailing these investigations. An oral defense and examination of the thesis is required. These six credit hours count towards the 18 hours of required electives for the degree (12 required hours as specified above). An exit interview conducted by the Graduate Program Director is required after passing the thesis defense.
    - Nonthesis Option
      - Complete all of the following
        - Nonthesis students are required to take 15 total credit hours of electives from the list of elective specializations shown above (12 required for all students, 3 additional for Nonthesis). In addition, they must take a minimum of 3 credit hours of directed research. The three credit hours of directed research count towards the 18 hours of required electives for the degree. In the directed research course, students work on a research project under the supervision of a faculty member and are required to present a final report as well as a written comprehensive exit examination*. The Graduate Program Director will arrange this exam. The exit exam is followed by an exit interview.
        - Earn at least 3 credits from the following types of courses:
          - Additional Elective Course from their specialization
        - Earn at least 3 credits from the following:
          - PHY6918 - Directed Research (1 - 99)
  - *Note: When applicable, students in the non-thesis MS degree program may request to satisfy the MS exit exam with the completion of the Physics PhD written candidacy exam.
Students pursuing a nonthesis master's degree must take at least one directed research course as part of their elective work. In this course, students will work on a research project under the supervision of a faculty member and present a final report.

Grand Total Credits: 30

Financial Information

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Physics MS - Physics MS, Planetary Sciences Track

College
College of Sciences

Department
Department of Physics

Track Website
https://sciences.ucf.edu/physics/

Track Handbook
Physics MS, Planetary Sciences Track

Track Contact Information

Daniel Britt
Pegasus Professor
dbritt@ucf.edu
Telephone: 407-823-2600
PSB 442

Esperanza Soto Arcino
Graduate Admissions Coordinator
soto@ucf.edu
Telephone: 407-823-5146
PSB 432

Is this track available 100% online?
No
**Track Description**

The goal of the Planetary Sciences Track in the Physics MS program is to foster a vibrant planetary science research environment that can attract top students, researchers, and faculty and contribute significantly to the exploration of space. The Planetary Sciences track is designed to prepare students to be competitive in the global planetary sciences research community.

The Planetary Sciences track in the Physics MS program requires a minimum of 33 hours of graduate course work as directed by the student's Supervisory Committee. This must include at least 15 credit hours of required courses, 6 hours of thesis preparation, with the remainder being elective courses and directed research chosen in consultation with the Supervisory Committee. At least half of the total credits must be at the 6000 level. No more than 6 hours of independent study may be credited toward the master's degree. The master's degree in Planetary Sciences includes a thesis and its defense. There is no nonthesis master's degree in the Planetary Sciences track.

**Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor's Degree**

**Track Prerequisites**

A bachelor's degree in a closely related science field such as physics, chemistry, geology, geophysics, geochemistry, atmospheric sciences biology, mathematics or planetary sciences.

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A bachelor's degree in a closely related science field such as physics, chemistry, geology, geophysics, geochemistry, atmospheric sciences biology, mathematics or planetary sciences.
- The GRE is not required for admission to this program.
- Three letters of recommendation.
- Statement of goals.
- CV or Résumé.

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants interested in being considered for assistantship and fellowship opportunities should apply directly to the Physics PhD program.

Additional courses may also be required to correct any course deficiencies for those applicants without full preparation in physics and astronomy. Students should contact the graduate program director for further information.

Current students in the existing Physics graduate program wishing to switch to the Planetary Sciences track must submit a letter to the Planetary Science Graduate Committee addressed to Dr. Dan Britt. The letter should include the request to join the planetary sciences track, the student's degree goal (Masters), the name of the student's planetary sciences adviser, and a brief description of their expected area of research. Upon departmental approval, a Graduate Status Change Form will be submitted to the College of Graduate Studies.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree. For information on the Planetary Sciences track contact the Planetary Sciences Graduate Advisor Dr. Dan Britt at 407-823-2600 or dbritt@ucf.edu.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority deadline.*
Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
**Degree Requirements**

**Required Courses**

15 Total Credits

- Complete all of the following
  - The core is designed to give students a broad foundation in the planetary sciences and rapid training in the data analysis techniques that will be necessary for successful research and publications. Students choose 5 out of the 6 core courses listed below:
  - Complete at least 5 of the following:
    - AST5151 - Physics of Planetary Processes (3)
    - PHY6246 - Classical Mechanics (3)
    - AST5765C - Advanced Astronomical Data Analysis (3)
    - AST5263 - Advanced Observational Astronomy (3)
    - AST5154 - Advanced Planetary Geophysics (3)
    - AST6165 - Planetary Atmospheres (3)

**Elective Courses**

12 Total Credits

- Complete all of the following
  - Students may enroll in elective formal courses relevant to their program, as approved by their Supervisory Committees. Suggestions include:
  - Earn at least 12 credits from the following:
    - AST5145 - Advanced Asteroids, Comets, and Meteorites (3)
    - AST5334 - Extrasolar Planets and Brown Dwarfs (3)
    - PHY5937 - Special Topics (3)
    - AST6112 - Origin and Evolution of Planetary Systems (3)
    - AST6156 - Current Topics in Planetary Sciences (3)

**Thesis**

6 Total Credits

- Earn at least 6 credits from the following types of courses:
  - AST or PHY 6971 - Thesis

**Supervisory Committee**

0 Total Credits

- Within the first half-semester of admission to the Planetary Sciences Track, each student must select, by mutual agreement, a faculty adviser and at least two other faculty members to serve on his or her Supervisory Committee. UCF graduate faculty and self-funded research scientists who are Graduate Faculty Scholars are eligible to serve on Supervisory Committees. Changes in the membership of a Supervisory Committee must be approved by the Planetary Sciences Graduate Committee. The adviser is expected to meet regularly with the student. The full committee shall meet with the student at least once per year to review and make recommendations regarding the student's academic progress.

**Master's Defense**

0 Total Credits

- The written thesis and oral defense is the final requirement for the master's degree. The thesis is a journal-level research paper. The oral defense is in two parts: (1) A public presentation of the research contained in the paper; and (2) private questioning on the detail of the presented research as well as the topics covered in the student's preparation and coursework. The written and oral components will be administrated by the student's Supervisory Committee.

**Independent Learning**

0 Total Credits

- A thesis is required in this program.

**Grand Total Credits: 33**

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

2021-2022 Graduate Catalog
**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**  
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**Physics PhD**

**College**

College of Sciences

**Department**

Department of Physics

**Program Website**

https://sciences.ucf.edu/physics/graduate/

**Program Handbook**

Physics PhD

**Program Contact Information**

Abdelkader Kara PhD  
Professor  
Abdelkader.Kara@ucf.edu  
Telephone: 407-823-5146  
PSB 303

Esperanza Soto Arcino  
Graduate Admissions Coordinator  
soto@ucf.edu  
Telephone: 407-823-5146  
PSB 432

**Is this program available 100% online?**  
No

**Program Description**

The Physics doctoral program offers research opportunities in condensed matter physics, physics of nanostructured devices, surface science, optical physics, complex systems, biophysics, atomic and molecular physics, physics education and planetary/space science. The program intends to provide a broad base in experimental and theoretical physics.

The rules and recommendations below do not apply to the Planetary Sciences track of the Physics PhD program. Please scroll to the bottom of this page for further details on this Track.

The Physics PhD program requires a total of 72 credit hours for completion. A specific set of six required core courses (18 credit hours), thirteen elective courses (39 credit hours, which may include directed research), and a minimum of 15 credit hours of dissertation are part of the 72 hours.

**Total Credit Hours Required:** 72 Credit Hours Minimum beyond the Bachelor’s Degree. 42 Credit Hours Minimum beyond the Master’s Degree.

**Program Prerequisites**

Students entering the Physics graduate program with regular status are normally expected to have completed course work generally required for a bachelor's degree in physics, including mechanics, electricity and magnetism, thermal and statistical physics, and quantum mechanics.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- The Physics Subject Test of the GRE is optional.
- Three letters of recommendation.
- Statement of goals. The final 1-2 paragraphs of each applicant's personal statement should make explicitly clear which research areas and faculty they have interest in working with within our program.
- Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Core Courses
18 Total Credits

- Complete the following:
  - PHY5606 - Quantum Mechanics I (3)
  - PHY6624 - Quantum Mechanics II (3)
  - PHY5346 - Electrodynamics I (3)
  - PHY6347 - Electrodynamics II (3)
  - PHY5524 - Statistical Physics (3)
  - PHY6246 - Classical Mechanics (3)

Elective Courses
39 Total Credits

- Methods Course - 3 Credit Hours Formal Course - 9 Credits Hours Remaining Electives - 27 Hours
Methods Course
3 Total Credits
- Complete at least 1 of the following:
  - PHZ5156 - Computational Physics (3)
  - AST5765C - Advanced Astronomical Data Analysis (3)
  - PHY5937 - Special Topics (3)

Formal Courses
9 Total Credits
- Complete 1 of the following
  - Students must complete three formal courses (9 credit hours) from the "List of Specialization Courses".
  - General Physics Specialization
  - Complete all of the following:
    - The General Physics Specialization emphasizes strong preparation in physics fundamentals. It is intended to prepare students for careers in theoretical physics or teaching at the college level. A few active research programs exist in the department to accommodate such students.
    - Complete at least 3 of the following:
      - COT5600 - Quantum Computing (3)
      - PHYS933 - Selected topics in biophysics of macromolecules (3)
      - PHZ5156 - Computational Physics (3)
      - PHZ6405 - Condensed Matter Physics (3)
      - PHZ6426 - Condensed Matter Physics I (3)
      - PHZ6428 - Condensed Matter Physics II (3)
      - PHY6667 - Quantum Field Theory I (3)
      - PHY7669 - Quantum Field Theory II (3)
      - PHZ5505 - Plasma Physics (3)
      - PHZ5304 - Nuclear and Particle Physics (3)
      - PHZ6234 - Atomic Physics (3)
      - PHZ6420 - First Principles Computational Methods in Condensed Matter Physics (3)
      - PHY6600C - Theory and Computations of Molecular Wavefunctions (3)
      - PHY6938 - Special Topics (3)
      - OSE5312 - Light Matter Interaction (3)
      - OSE6347 - Quantum Optics (3)
    - PHY 7919 - Doctoral Directed Research may also be used

Condensed Matter Physics Specialization
- Complete all of the following
  - The Condensed Matter Physics Specialization is intended to prepare students for careers in materials physics, nanoscale science and technology, semiconductors, and soft condensed matter physics. It emphasizes strong experimental preparation with hands-on courses in advanced materials characterization and processing instrumentation. Related research programs at UCF include magnetic nanostructures, soft condensed matter, electronic and optoelectronic devices, and nanoscale characterization.
  - Complete at least 3 of the following:
    - PHZ5405 - Condensed Matter Physics (3)
    - PHZ6426 - Condensed Matter Physics I (3)
    - PHZ6428 - Condensed Matter Physics II (3)
    - PHZ5156 - Computational Physics (3)
    - PHZ6420 - First Principles Computational Methods in Condensed Matter Physics (3)
    - Course Not Found
    - PHZ5432 - Introduction to Soft Condensed Matter Physics (3)
    - PHYS933 - Selected topics in biophysics of macromolecules (3)
    - PHY6667 - Quantum Field Theory I (3)
    - PHY7669 - Quantum Field Theory II (3)
    - COT5600 - Quantum Computing (3)
    - PHY6938 - Special Topics (3)

Optical Physics Specialization
- Complete all of the following
  - The Optics Specialization coordinator is David Hagan, PhD, College of Optics and Photonics.
  - Complete at least 1 of the following:
    - OSE6111 - Optical Wave Propagation (3)
    - OSE5115 - Interference and Diffraction (3)
  - Complete at least 1 of the following:
    - OSE6526C - Laser Engineering Laboratory (3)
    - OSE6455C - Photonics Laboratory (3)
  - Earn at least 3 credits from the following types of courses:
    - The remaining courses (up to three) may be selected from other graduate courses in Optics (see www.creol.ucf.edu).
Earn at least 27 credits from the following types of courses:
Students must complete 27 credit hours of unrestricted electives, which may consist of formal courses, research, and/or dissertation hours. Students should consult with their adviser about selections for the remaining unrestricted electives.

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
PHY 7980 - Dissertation Research All students must complete a minimum of 15 credit hours of dissertation prepared in consultation with a dissertation adviser. A fifteen-page written proposal is presented orally to the student’s dissertation committee within one year after the written candidacy exam. The final oral defense of the dissertation is administered by the student's dissertation committee following completion of a written dissertation describing the student’s research.

Seminar Attendance
0 Total Credits

- Students in their fourth semester and beyond will be required to attend a major fraction of seminars and colloquia hosted by the Physics Department, as well as to make an annual presentation of their research work or independent study.

Examinations
0 Total Credits

- Details

Placement Exam
0 Total Credits

- All incoming PhD students in Physics will be required to take a diagnostic test like the Physics subject GRE. This test has placement purposes only, allowing the Graduate Program Director and academic adviser to identify possible weaknesses in the student's background and help devise a suitable plan of study. There is no passing or failure.

Candidacy Exam
0 Total Credits

- The candidacy exam consists of two parts. Part 1 is a written exam covering topics such as those listed in the Graduate Catalog for the courses PHY 5606 - Quantum Mechanics I, PHY 6624 - Quantum Mechanics II, PHY 5346 - Electrodynamics I, PHY 6347 - Electrodynamics II, PHY 5524 - Statistical Physics, and PHY 6246 - Classical Mechanics. Students are expected to show mastering of these topics at or above the undergraduate level. The written exam should be taken immediately after the core courses have been completed. After passing the written exam, the student should identify a research supervisor and a dissertation committee must be put in place with the approval of the graduate program director. Students are only allowed two attempts at passing the written part of the candidacy exam. Part 2 is an oral exam that combines an examination of the student's command of Physics and a written dissertation proposal. The oral exam should be taken no later than one year after the written exam has been satisfied.

Admission to Candidacy
0 Total Credits

- The following are required to obtain candidacy status and enroll in dissertation hours: Completion of a minimum 30 credit hours to include all required core courses, 18 credit hours of core courses, 3 credit hours of Methods Course, and 9 credit hours of formal electives. (Directed Research and Dissertation hours are not included) *Note: For students that transfer from a doctoral program post-candidacy, a minimum 9 credit hours enrollment in their first semester is required to satisfy the UCF earned non-zero GPA. Successful completion of both part I (written exam) and part II (oral exam) of the candidacy exam. The dissertation advisory committee is formed, consisting of a chair, approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study. Completion of CITI and RCR Workshops

Independent Learning
0 Total Credits

- The Physics PhD program requires a doctoral dissertation. This will provide ample opportunities for students to gain independent learning experience through studying published research papers, conducting research, and presenting their results in conferences and in peer-reviewed scientific journals.

Grand Total Credits: **72**

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

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Physics PhD - Physics PhD, Planetary Sciences Track

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Track Website

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Track Handbook

Physics PhD, Planetary Sciences Track

Track Contact Information

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PSB 442

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PSB 432

Is this track available 100% online?

No

Track Description

The goal of the Planetary Sciences Track of the Physics PhD program is to foster a vibrant planetary science research environment that can attract top students, researchers, and faculty and contribute significantly to the exploration of space. The Planetary Sciences track is designed to prepare students to be competitive in the global planetary sciences research community.

Total Credit Hours Required: 72 Credit Hours Minimum beyond the Bachelor's Degree. 42 Credit Hours Minimum beyond the Master's Degree.

This includes completion of 6 required courses (18 credit hours), 5 elective courses (15 credit hours) of regular course work, and a minimum of 15 credit hours of dissertation. Courses must be selected so that at least 36 of the 72 hours are at 6000 level or higher. No more than 12 hours of independent study may be credited toward the PhD degree. The PhD includes a Candidacy Exam to be taken after the completion of the core and elective courses, a written dissertation, and a dissertation defense before the student's Dissertation Advisory Committee.

Track Prerequisites

Students entering the Planetary Sciences graduate track program with regular status are normally expected to have completed coursework generally required for a bachelor's degree in a closely related science field such as physics, astronomy, geology, geophysics, atmospheric sciences, chemistry, biology, mathematics or planetary sciences.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE score taken within the last five years.
- Three letters of recommendation.
- Statement of goals.
- Students entering the Planetary Sciences graduate track program with regular status are normally expected to have completed coursework generally required for a bachelor's degree in a closely related science field such as physics, astronomy, geology, geophysics, atmospheric sciences, chemistry, biology, mathematics or planetary sciences.
- CV or Résumé.

Additional courses may also be required to correct any course deficiencies for those applicants without full preparation in physics and astronomy. Students should contact the graduate program director for further information.

Current students in the existing Physics graduate program wishing to switch to the Planetary Sciences track must submit a letter to the Planetary Science Graduate Committee addressed to Dr. Dan Britt. The letter should include the request to join the Planetary sciences track, the student's degree goal (Masters or PhD), the name of the student’s planetary sciences adviser, and a brief description of their expected area of research. Upon departmental approval, a Graduate Status Change Form will be submitted to the College of Graduate Studies.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on the evaluation of the applicant’s abilities, past performance, recommendations, match of this program and faculty expertise to the applicant’s career/academic goals, and the applicant’s potential for completing the degree. For information on the Planetary Sciences track contact the Planetary Sciences Graduate Advisor Dr. Dan Britt at 407-823-2600 or dbritt@ucf.edu.

Graduate Application Deadlines

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*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete all of the following
  - The core is designed to give students a broad foundation in the planetary sciences and a rapid training in the data analysis techniques that will be necessary for a successful research and publications.
  - Complete the following:
    - AST5151 - Physics of Planetary Processes (3)
Elective Courses
15 Total Credits
- Earn at least 15 credits from the following types of courses:
  Students may enroll in elective formal courses relevant to their program, as approved by their Supervisory Committees. Suggestions include: AST 5145 - Advanced Asteroids, Comets, and Meteorites 3 Credit Hours AST 5334 - Extrasolar Planets and Brown Dwarfs 3 Credit Hours AST 5937 - Astrobiology 3 Credit Hours AST 6112 - Origin and Evolution of Planetary Systems 3 Credit Hours AST 6156 - Current Topics in Planetary Sciences 3 Credit Hours

Other Electives
24 Total Credits
- Earn at least 24 credits from the following types of courses:
  This may include any form of graduate credit not used for other requirements and consistent with restrictions stated elsewhere in the program.

Dissertation
15 Total Credits
- Earn at least 15 credits from the following types of courses:
  AST or PHY 7980 - Dissertation

Supervisory Committee
0 Total Credits
- Within the first half-semester of admission to the Planetary Sciences Track, each student must select, by mutual agreement, a faculty adviser and at least two other faculty members to serve on the Supervisory Committee. UCF graduate faculty and UCF self-funded research scientists who are Graduate Faculty Scholars are eligible to serve on Supervisory Committees. Creation of and changes in the membership of a Supervisory Committee must be approved by the Planetary Sciences Graduate Committee. The adviser is expected to meet regularly with the student. The full committee shall meet with the student at least once per year to review and make recommendations regarding the student's academic progress.

Candidacy Examination
0 Total Credits
- The Planetary Sciences Track requires a Candidacy Exam to be taken after the completion of the core courses. This examination is composed of written and oral components. The written component is a journal-level research paper. The oral component has two parts: (1) A public presentation of the research contained in the paper, including the traditional question-and-answer period of a scientific presentation; and (2) private questioning on the detail of the presented research as well as the topics covered in the student's preparation, coursework and dissertation direction. The Supervisory Committee administers the Candidacy Examination.

Dissertation Advisory Committee
0 Total Credits
- After passing the Candidacy Examination, a non-UCF member shall be added to the Supervisory Committee by mutual agreement of the student and Supervisory Committee. This becomes the Dissertation Advisory Committee. The committee continues to meet with the student annually.

Dissertation Proposal
0 Total Credits
- The dissertation proposal may be presented immediately after the Candidacy Examination or in a separate meeting not more than one semester thereafter. Before substantial work is done on the Dissertation Advisory Committee must approve the proposal and must also assess whether additional coursework is necessary to begin the dissertation. Such coursework should be completed at the earliest opportunity and before substantial work is done on the dissertation. If the committee does not accept the proposal, it may be resubmitted and re-defended at any time, but no later than three months after the last attempt. If not accepted within one year of the Candidacy Examination the committee may, at its option, discontinue the student from the program.

Admission to Candidacy
0 Total Credits
- The following are required to be admitted to candidacy and enroll in dissertation hours: Completion of all required and formal elective course work, except for research hours. Successful completion of the Candidacy Examination. The Dissertation Advisory Committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study. Completion of CITI and RCR Workshops.

Dissertation Defense
0 Total Credits
- The dissertation defense is the final requirement for the PhD. It consists of a public presentation of the dissertation, typically...
lasting 45-60 minutes including the traditional question-and-answer period of a scientific presentation, followed by private questioning by the Dissertation Advisory Committee. Procedures are similar to the Candidacy Examination.

Independent Learning
0 Total Credits

- A dissertation is required.

Grand Total Credits: 72

Track Details

All courses must be selected in consultation with and with the approval of the Supervisory Committee (before candidacy) or Dissertation Advisory Committee (after candidacy).

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Political Science MA

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Program Website
https://sciences.ucf.edu/politics/

Program Handbook
Political Science MA

Program Contact Information

Andrew Boutton PhD
Associate Professor and MA program coordinator
Andrew.Boutton@ucf.edu
Telephone: 407-823-3330
HPH 302

Kyrie Ottaviani
Graduate Admissions Coordinator
graduatepolisci@ucf.edu

Is this program available 100% online?
No
Program Description

The Master of Arts in Political Science program prepares students to enter positions in government and the private sector, advance their professional careers in a variety of fields including consultation, defense, environment, and philanthropy, and pursue more advanced graduate degrees such as a PhD in which the analytical ability to comprehend, influence, and respond to policies and initiatives is critical. The program also provides a well-rounded substantive curriculum for secondary school teachers seeking higher degrees and for teachers in community colleges. As such, the Master of Arts in Political Science program is designed to accommodate a range of professional and intellectual needs.

A Program of Study in the Master of Arts in Political Science consists of the following coursework. Students have the option of completing a thesis with 27 hours of coursework or choosing the nonthesis option with 33 hours of coursework.

Total Credit Hours Required: 33 Credit Hours Minimum beyond the Bachelor’s Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of reference that evaluate the applicant’s academic performance and their suitability and potential for undertaking MA level study, at least two of which were written by faculty members at the higher education institution(s) the student attended.
- A personal statement of at least 500 words identifying areas of research interest in political science, faculty with whom they would like to work, and describing the applicant's academic and professional experiences and future career goals.
- CV/Résumé.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Student wishing to enroll in graduate courses in political science must meet the SPSIA’s requirements for graduate status (either regular or conditional graduate status) or must hold regular graduate status in another program at UCF. Students who have not been accepted into a degree-seeking program at UCF may not enroll in political science graduate courses.

Meeting minimum UCF or SPSIA admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

2021-2022 Graduate Catalog
Required Core Courses
12 Total Credits

- Complete all of the following
  - Complete the following:
    - POS6736 - Conduct of Political Inquiry (3)
    - POS6746 - Quantitative Methods in Political Research (3)
  - Complete at least 2 of the following:
    - CPO6091 - Seminar in Comparative Politics (3)
    - INR6007 - Seminar in International Politics (3)
    - POS6045 - Seminar in American National Politics (3)
    - POT6007 - Seminar in Political Theory (3)

Elective Courses
15 Total Credits

- Complete all of the following
  - Students will complete 15 hours of coursework at the 5000 or 6000 level. All 5000 or 6000 level courses offered by the SPSIA can be used to meet this requirement, with the exception of those courses used to complete core course requirements. Up to 6 credit hours of 5000 and 6000 level courses coursework from other departments/schools may also be used as electives with the prior approval of the MA program coordinator. Students may use up to 6 hours of independent study and up to 6 hours of internship credit for the elective credits requirement, but no more than 6 hours total can be from coursework outside the SPSIA, independent study, or internship credit.
  - Complete at least 5 of the following:
    - CPO6038 - Political Development (3)
    - CPO6058 - Revolution and Political Violence (3)
    - CPO6206 - Comparative Politics of Africa (3)
    - CPO6307 - Issues in Latin American Politics (3)
    - CPO6729 - Global Security in the Age of Migration (3)
    - INR6039 - International Political Economy (3)
    - INR6062 - Peace Studies (3)
    - INR6065 - Seminar on War (3)
    - INR6067 - Human Rights and Security (3)
    - INR6068 - Politics of Civil Wars (3)
    - INR6108 - Seminar in American Foreign Policy (3)
    - INR6136 - Seminar in American Security Policy (3)
    - INR6137 - Terrorism and Politics (3)
    - INR6257 - International Relations of Africa (3)
    - INR6275 - International Politics of the Middle East (3)
    - INR6339 - Strategic Warning Analysis (3)
    - INR6346 - Politics of International Terrorism (3)
    - INR6352 - Global Environmental Politics (3)
    - INR6356 - Environmental Security (3)
    - INR6365 - Seminar on Intelligence (3)
    - INR6366 - The Intelligence Community (3)
    - INR6726 - Political Behavior in International Conflict (3)
    - POS6207 - Political Behavior (3)
    - POS6415 - The American Presidency (3)
    - POS6427 - Congress and the Legislative Process (3)
    - POS6686 - National Security Law (3)
    - POS6729 - Political Network Analysis (3)
    - POS6743 - Geographic Tools for Political Science Research (3)
    - POS6747 - Advanced Topics in Quantitative Political Analysis (3)
    - POS6757 - Survey Design for Political Science Research (3)
    - Course Not Found
    - PUP6208 - Environmental Politics (3)
    - PUP6247 - Contemporary Issues in Environmental Politics (3)
    - PUP6324 - Women and Public Policy (3)
    - PUP6607 - Politics of Health (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - All MA students are automatically placed in the nonthesis option. Students wishing to write a thesis must get approval to do so. POS 6971 Thesis After completion of the required coursework and the passing of comprehensive exams, the student must have a thesis committee approved by the School of Politics, Security, and International Affairs (SPSIA) and Graduate Studies. The thesis committee consists of a chair and two other faculty members from the SPSIA who are members of the Graduate Faculty. On the approval of the thesis chair and Graduate Program Director, one of the committee members (but not the chair) may come from outside the SPSIA. When a thesis topic has been selected,
students, in conjunction with their thesis committee, will develop a thesis proposal. Copies of the proposal will be sent to members of their thesis committee and a proposal hearing scheduled in the first semester the student enrolls for thesis hours. All students must pass a proposal hearing as well as a final oral defense of their thesis. Once enrolled in thesis hours, students should maintain continuous enrollment (3 credit hours) each semester up to and including the semester in which they defend the thesis. In addition to SPSIA guidelines for the thesis, students should also become familiar with the UCF’s requirements and deadlines for organizing and submitting the thesis.

Nonthesis Option

• Earn at least 6 credits from the following types of courses:
  The student must complete 6 additional credit hours of course electives in their respective areas. Thesis hours, if already taken, will not count for course credit for the 6 additional credit hours of coursework. Electives 6 Credit Hours
  Complete an independent research project/paper During the final semester of coursework, the student must have a nonthesis committee approved by the SPSIA and Graduate Studies. The nonthesis committee consists of a chair and one other faculty member from the SPSIA. On the approval of the thesis chair and Graduate Program Director, the committee member (but not the chair) may come from outside the SPSIA. The student must complete an approved article-length independent research paper. The project/paper must have a component of original, independent research; it cannot be a literature review or research design only. The project/paper can be a product of a graduate research seminar and/or independent study paper. The student will present their research publicly at a SPSIA or UCF research colloquium or another public academic forum such as an academic conference. The project/paper must be evaluated by the nonthesis committee and receive formal confirmation of completion from the committee, and the MA program coordinator. If the paper is to be presented at a SPSIA research colloquium, the student is responsible for scheduling the presentation in consultation with the nonthesis committee.

Comprehensive Examination

0 Total Credits

• All candidates for the MA degree must take a comprehensive written examination. The examination will be administered after satisfactory completion of the required course work and must be taken prior to enrollment in thesis hours. The exam is designed to demonstrate proficiency in research methods and will consist of two parts. Part I will involve the critique of an article from a political science journal. The article will be assigned by the SPSIA's Graduate Methods Committee in consultation with the student and where possible will be based on the student’s substantive areas of interest. Part II will involve questions based on data analysis using either SPSS or STATA. The examination will be offered once semester. Dates will be set by the SPSIA. Students must register to take the exam at least six weeks prior to its scheduled date and take the exam within six months after they complete POS 6736 and POS 6746. Students not passing any part of the examination may take this part a second time within nine months on the dates that comprehensive exams are regularly scheduled. However, no student will be allowed to take the examination more than twice.

Equipment Fee

0 Total Credits

• Full-time students in the Political Science MA program pay a $39 equipment fee each semester that they are enrolled. Part-time students pay $19.50 per semester.

Grand Total Credits: 33

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student’s graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Research Smarts Graduate Certificate
**College**
College of Sciences

**Department**
Department of Sociology

**Program Website**
https://sciences.ucf.edu/sociology/graduate/programs/

**Program Contact Information**

**Timothy L. Hawthorne, PhD**  
Associate Professor  
Department of Sociology  
Timothy.Hawthorne@ucf.edu  
Telephone: 407-823-3744  
HPH, RM 403

**Bridgett Burk**  
Graduate Admissions Coordinator  
Department of Sociology  
HPH, RM 403  
407-823-3744

**Is this program available 100% online?**
No

**Program Description**

The Graduate Certificate in Research Smarts provides students with the essential skills and critical thinking needed by today's consumers of news and information.

Increasing one's Research Smarts will provide students with the practical skills and critical thinking necessary to produce and to consume findings, facts, and information with the assurance that it was arrived at systematically. These skills are not only useful in daily life, as we wade through the mass of news and information that comes our way, but also in private business, nonprofit organizations, government agencies, and other employment opportunities. Students seeking employment, those with jobs currently, or those working toward advancement can benefit from a critical examination of how knowledge is gained and which sources of information can be trusted. This is because nearly all employers value employees who are confident in their understanding and use of scientific research skills.

Students earning the Graduate Certificate in Research Smarts will acquire the following skills:

1. Be able to define knowledge, social science research, and research methods.  
2. Summarize why understanding research methods is important.  
3. Evaluate and describe each of the major steps taken to conduct research as well as the importance of each step.  
4. Develop research questions and compare the different types of research questions.  
5. Understand why ethics are an important consideration during research.  
6. Understand a variety of ways to analyze data.  
7. Understand the relationship between research methods and data analysis.  
8. Be able to design a sound research project from developing the research question to collecting the data, to selecting the best analysis strategy to making strategic conclusions.  
9. Use the above skills to critically assess news and information as well as evaluate the claims and assertions of others.

The Research Smarts Graduate Certificate consists of three required courses.

**Total Credit Hours Required: 9 Credit Hours Minimum beyond the Bachelor’s Degree**

**Program Prerequisites**

Admission is open to those with a bachelor’s degree from an accredited institution recognized by UCF and at least one statistics course or math course.

**Application Requirements**

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF and at least one statistics course or math course. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.
### Graduate Application Deadlines

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### Graduate School Contact

**Anthony Tufano**  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

**Mailing Address**  
UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

**Institution Codes**

- GRE: 5233  
- GMAT: RZT-HT-58  
- TOEFL: 5233  
- ETS PPI: 5233

### Degree Requirements

**Required Courses**

- Complete at least 3 of the following:
  - SYA6305 - Social Research (3)  
  - SYA6315 - Qualitative Research Methods (3)  
  - SYA6356 - Geographic Information Systems in Society (3)  
  - SYA6425 - Design and Conduct of Social Surveys (3)  
  - SYA6452 - GIS Applications (3)  
  - SYA6455 - Research Analysis (3)  
  - SYA6458 - Advanced Topics in Geographic Information Systems in Society (3)  
  - SYA6657 - Program Design and Evaluation (3)  
  - SYA7309 - Advanced Sociological Research Methods (3)  
  - SYA7407 - Advanced Data Analysis (3)  
  - SYA7457 - Topics in Data Analysis (3)  
  - SYA7658 - Social Policy and Research Analysis (3)

**Grand Total Credits:** 9

### SAS Data Mining Graduate Certificate

**College**  
College of Sciences

**Department**  
Department of Statistics

**Program Website**

http://statistics.cos.ucf.edu/

**Program Contact Information**

**Edgard Maboudou, PhD**  
Professor  
Edgard.Maboudou@ucf.edu  
Telephone: 407-823-2695  
TC2 201
Is this program available 100% online?
No

Program Description
The Graduate Certificate in SAS Data Mining is designed to provide students with the knowledge of using statistical, data presentation and data visualization tools needed for data mining with SAS/Enterprise Miner and SAS/Warehouse Administrator software.

The Graduate Certificate in SAS Data Mining provides students the knowledge to use statistical, data presentation, and data visualization tools needed for data mining with SAS/Enterprise Miner and SAS/Warehouse Administrator software. The program welcomes interested UCF students and those already employed full-time but wishing to advance their careers. Basic familiarity with the web and computer programming is required.

The program requires five courses and is set up so that students begin the program in the fall semester. Applicants contemplating applying for spring and summer terms should first contact the program coordinator for advisement.

Total Credit Hours Required: 15 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites
Basic familiarity with the web and computer programming is required.

Application Requirements
Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Graduate Application Deadlines

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Applicants contemplating applying for spring and summer terms should first contact the program coordinator for advisement.

Graduate School Contact
Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements
Required Courses
15 Total Credits

- Complete the following:
  - STA5104 - Advanced Computer Processing of Statistical Data (3)
  - STA5206 - Statistical Analysis (3)
  - STA6714 - Data Preparation (3)
  - STA5703 - Data Mining Methodology I (3)
  - STA6704 - Data Mining Methodology II (3)

Grand Total Credits: 15
Security Studies PhD

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Program Website
https://sciences.ucf.edu/politics/

Program Handbook
Security Studies PhD

Program Contact Information
Thomas Dolan PhD
Associate Professor
thomas.dolan@ucf.edu
Telephone: 407-823-2608
HPH 302D

Is this program available 100% online?
No

Program Description
The Security Studies doctoral program is designed to produce specialists capable of analyzing and communicating security issues to policy makers, the general public, the government, and academia.

Many graduates will work in military and other governmental organizations, international corporations, and agencies that deal with security. Others will seek employment in research and teaching in institutions of higher education.

The PhD degree consists of 59 credit hours beyond the master's degree. A master's degree is required for admission to the program with at least 30 credit hours of master's level work (including both coursework and thesis hours). The 59 credit hours consist of 17 credit hours of required courses, 15 credit hours of restricted electives, 9 hours of unrestricted electives (including courses offered in other departments, research, independent study, and internship), and a minimum of 18 credit hours of dissertation work.

Total Credit Hours Required: 59 Credit Hours Minimum beyond the Master's Degree

Program Prerequisites
An earned master's degree or its equivalent in Political Science, International Politics or International Relations, or related discipline. The Graduate Program Director will evaluate the suitability and applicability of MA degrees in other disciplines for admission purposes.
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- An earned master’s degree or its equivalent in Political Science, International Politics or International Relations, or related discipline. The Graduate Program Director will evaluate the suitability and applicability of MA degrees in other disciplines for admission purposes.
- The GRE is not required for admission to this program.
- Three letters of reference that evaluate the applicant’s academic performance and their suitability and potential for undertaking doctoral study, at least one of which must be written by a faculty member at the institution where the master’s degree was earned.
- A personal statement of 500 words identifying areas of research interest in political science, faculty with whom they would like to work, and describing the applicant's academic and professional experiences and future career goals.
- A writing sample of at least 2500 words that demonstrates the applicant’s ability to complete graduate-level research.
- Résumé.
- For international applicants whose first language is not English, a score of 90 or better on the TOEFL internet-based test (iBT); or a score of 232 or better on the TOEFL computer-based test; or a score of 575 or better on the TOEFL paper-based test; or a score of 7.0 or better on the IELTS.

Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicants should plan to take the appropriate test no later than December to ensure consideration of their applications by the January 15 deadline.

Applicants’ records will be reviewed on an individual basis for academic deficiencies and evaluated to assess their potential for success in the program. Supplemental course work may be recommended. Consult the graduate program director whenever questions arise.

A department admissions committee that reviews the applicants’ credentials will conduct interviews with the top candidates (either in-person on campus or by phone or Skype). Final selection is based on both submitted credentials and interview.

Meeting minimum UCF admissions criteria does not guarantee program admission. Final admission is also based on evaluation of the applicant’s abilities, past performance, recommendations, match of this program to the applicant’s career/academic goals, applicant’s potential for completing the degree, and the interview.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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**Institution Codes**
GRE: 5233
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Degree Requirements

Required Courses
17 Total Credits

- Core Courses
15 Total Credits
  - Complete the following:
    - INR7139 - Issues in Domestic Security (3)
    - INR7332 - Scientific Study of Security (3)
    - INR7337 - Issues in International Security (3)
    - POS7745 - Advanced Quantitative Methods in Political Research (3)
    - POS7707 - Advanced Qualitative Methods in Political Research (3)

Professional Development Courses
2 Total Credits
  - Complete the following:
    - POS7930 - Professional Development: Academic Careers in Security Studies (1)
    - POS7267 - Professional Development: The Practice of Security Studies (1)

Elective Course
24 Total Credits

- Restricted Electives
15 Total Credits
  - Complete all of the following
    - All students in the doctoral program must complete a minimum of 15 hours of course work in approved restricted elective graduate seminars. The choice of specific courses will be based on the research interests of students and made in conjunction with their faculty advisor. In this way, students achieve two distinct but related goals: a broad competence in the variety of methodological, theoretical, and substantive approaches to security studies and advanced proficiency in the areas that are most germane to their research interests. Approved restricted electives include:
      - Complete at least 5 of the following:
        - CPO6038 - Political Development (3)
        - CPO6058 - Revolution and Political Violence (3)
        - CPO6091 - Seminar in Comparative Politics (3)
        - CPO6206 - Comparative Politics of Africa (3)
        - CPO6307 - Issues in Latin American Politics (3)
        - CPO6407 - Comparative Politics of the Middle East (3)
        - CPO6729 - Global Security in the Age of Migration (3)
        - CPO6776 - Comparative Rising Powers (3)
        - Course Not Found
        - INR6039 - International Political Economy (3)
        - INR6062 - Peace Studies (3)
        - INR6065 - Seminar on War (3)
        - INR6067 - Human Rights and Security (3)
        - INR6068 - Politics of Civil Wars (3)
        - INR6136 - Seminar in American Security Policy (3)
        - INR6137 - Terrorism and Politics (3)
        - INR6108 - Seminar in American Foreign Policy (3)
        - INR6228 - International Politics of the Caspian Sea Region (3)
        - INR6257 - International Relations of Africa (3)
        - INR6275 - International Politics of the Middle East (3)
        - INR6339 - Strategic Warning Analysis (3)
        - INR6346 - Politics of International Terrorism (3)
        - INR6356 - Environmental Security (3)
        - INR6365 - Seminar on Intelligence (3)
        - INR6366 - The Intelligence Community (3)
        - INR6507 - International Organization (3)
        - INR6726 - Political Behavior in International Conflict (3)
        - POS6207 - Political Behavior (3)
        - POS6415 - The American Presidency (3)
        - POS6427 - Congress and the Legislative Process (3)
        - POS6686 - National Security Law (3)
        - POS6729 - Political Network Analysis (3)
        - POS6743 - Geographic Tools for Political Science Research (3)
        - POS6747 - Advanced Topics in Quantitative Political Analysis (3)
        - POS6757 - Survey Design for Political Science Research (3)
Unrestricted Electives
9 Total Credits
- Earn at least 9 credits from the following types of courses:
  The unrestricted electives provide students with an opportunity to further expand their doctoral training beyond the program's core courses and the restricted electives. Unrestricted electives may include regularly scheduled graduate courses in political science, graduate-level courses in programs outside the department, independent study courses, doctoral research courses with a highly focused student/faculty research component, and internships that enable students to gain valuable experience in a non-academic setting. Unrestricted electives may be taken at any point in the student's program of study; however, no more than a total of twelve hours of graduate course work can be from outside of the department, dissertation research, independent study, or internship combined; in addition, no more than a total of six hours can be from either independent study or internship. Students with suitable academic backgrounds may work in areas such as cyber security or science and technology taking courses in relevant departments. A student's faculty advisor and the department's Graduate Program Director must approve all graduate courses taken outside of the department as well as any internships.

Modern Language or Methods Requirement
0 Total Credits
- Prior to enrollment in dissertation hours, students are required to demonstrate proficiency in one modern language (other than English) or an additional methodological course dependent on the student's intended research area. The language requirement is two years (four semesters) of a single college-level modern language, which should normally be in an area relevant to the student's research. Students may meet the requirement by providing evidence of four semesters of enrollment or by passing a university-administered equivalent proficiency examination. The methods requirement is met by taking a methods course as part of the elective course requirements, with the approval of the Graduate Program Director.

Preliminary Advisory Committee Meeting
0 Total Credits
- No earlier than April 1 and not later than June 1, of their first year in the program, students will assemble and meet with a Preliminary Advisory Committee of no fewer than three full-time Political Science faculty members, all of whom should have Graduate Faculty or Grad Faculty Scholar Status. Prior to this meeting, the student will present committee members with a written statement of their primary research interests. During this meeting faculty members provide feedback on the student's statement of research interests and will identify key literatures that the student will be expected to be familiar with as they pursue their dissertation. During this meeting faculty members provide feedback on the student's statement of research interests and will identify key literature that the student will be expected to be familiar with as they pursue their Dissertation Advisory Committee. Note that college approval for the committee is not required at this time and that students are able to change the composition of their committee at any time (subject to program and college approval). Students will not be permitted to take Candidacy Exam C until they have conducted their Preliminary Advisory Committee Meeting.

Written Candidacy Exams
0 Total Credits
- Each student will take the following exams: 1. An exam in qualitative methods, addressing the material taught in INR 7707. 2. An exam in quantitative methods, addressing the material taught in INR 7745. 3. An exam addressing the contemporary literature in security studies. Students must pass each part of each exam prior to enrollment in dissertation hours. If they fail any part(s) of any exam, they will have a second opportunity to take that part(s). If they fail the exam a second time, the student will be dismissed from the program.

Admission to Candidacy
0 Total Credits
- The following are required to be admitted to candidacy and enroll in dissertation hours: • Completion of all coursework, except for dissertation hours • Successful completion of all written candidacy exams • Formation of a dissertation advisory committee • Submittal of an approved program of study

Dissertation
18 Total Credits
- Earn at least 18 credits from the following types of courses:
  POS 7980 - Dissertation Research The dissertation is the culmination of the coursework that comprises this research-based degree. It must make a significant theoretical, historical, intellectual, practical, creative, or research contribution to the student's area within the discipline. The dissertation will be completed through a minimum of 18 hours of dissertation credit, which students will use to accomplish original research. Students must maintain enrollment in dissertation hours until the degree is awarded. The dissertation must conform to standard disciplinary, institutional, and departmental practices. Consistent with College of Graduate Studies Policies, a dissertation can only be approved after the successful completion of a Dissertation Defense.

Grand Total Credits: 59
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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finaid@ucf.edu
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Sociology, Applied MA

College
College of Sciences

Department
Department of Sociology

Program Website
https://sciences.ucf.edu/sociology/

Program Handbook
Sociology MA

Program Contact Information

Timothy L. Hawthorne, PhD
Graduate Director & Associate Professor of Geographic Information Systems
Department of Sociology
Timothy.Hawthorne@ucf.edu
Telephone: 407-823-4115
HPH, RM 403Q

Bridgett J. Burke
UCF Sociology Graduate Admissions Coordinator
socadmissions@ucf.edu
Telephone: 407-823-1198
HPH, RM 403J

Is this program available 100% online?

No
Program Description

The Department of Sociology offers a graduate program leading to a Master of Arts degree in Applied Sociology. Beyond a curriculum appropriate for general applied sociology, the program includes a graduate track in Domestic Violence and a graduate track in Medical Sociology as well as instruction and opportunities pertaining to the study of crime and deviance; domestic violence; medical sociology; and social inequalities. Please scroll to the bottom of this page for further details on these Tracks.

A primary focus of the program is the variety of social problems in society. Toward this objective, the program promotes the application of sociological and social psychological knowledge, principles, and research skills in a variety of organizational, community, and institutional settings. Examples of competencies in applied sociology include effective skills in program design and evaluation research; planning, feasibility and needs assessment studies; data management, analysis and presentation; and the application of general systems and social conflict theories to organizational problems, community development and planned change.

Degree seeking students in the Applied Sociology Program may elect to follow either a thesis or a non-thesis course of study. The thesis option is typically designed for students who plan to enter doctoral programs. The non-thesis option is more appropriate for students entering or continuing professional careers following the MA degree.

The degree of Master of Arts is conferred when students have fulfilled the requirements for either the thesis or non-thesis option. Both options require 30 hours of course work.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation, including at least two from academic sources familiar with the applicant's academic abilities.
- A personal statement of 250-500 words identifying areas of research interest as it connected to thematic areas of UCF Sociology, faculty with whom they would like to work, and describing the applicant's academic and professional experience and goals.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

The applicant's records will be reviewed on an individual basis for academic deficiencies and evaluated to assess their potential for success in the program. Supplemenal course work may be recommended.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, and the applicant's potential for completing the degree. Note also that there is no automatic connection between acceptance as a non-degree-seeking student and acceptance into this degree-granting program. Consult the graduate program director whenever questions arise.

Graduate Application Deadlines

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<tr>
<th>Sociology MA, Applied</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
**Degree Requirements**

**Required Courses**

- **12 Total Credits**
  - Complete all of the following
    - Students receive an independent learning experience in the core by completing a research study in each of the 12 hours of required courses. SYA 5625 - ProSeminar should be taken as early as possible in the program.
    - Complete the following:
      - SYA5625 - ProSeminar (3)
      - SYA6126 - Social Theory (3)
      - SYA6305 - Social Research (3)
      - SYA6455 - Research Analysis (3)

**Elective Courses**

- **12 Total Credits**
  - Earn at least 12 credits from the following types of courses:
    - Students will select a minimum of 12 credit hours of unrestricted electives in consultation with their faculty advisor. No more than 3 hours may be taken in UCF graduate programs outside the department. The department's graduate director must approve all courses taken outside the department prior to enrollment. A listing and description of courses offered by the Department of Sociology is found in the "Courses" section. Under special circumstances, students may enroll in a graduate-level Directed Independent Study course or a Directed Independent Research course to fulfill their nonrestricted elective course requirements. These courses, like most graduate seminars, require written research deliverables. Enrollment in these courses requires written approval from the student's advisor and graduate director. No more than 6 hours of graduate-level courses in Directed Independent Study or Directed Independent Research may be included in a student's program of study.
    - Nonthesis students may substitute up to 6 hours of their elective course work by completing a graduate practicum/internship (SYA 6946). The practicum must be approved by the student's permanent adviser and the department's graduate program director.

**Thesis/Nonthesis Option**

- **6 Total Credits**
  - Complete 1 of the following
    - **Thesis Option**
      - Earn at least 6 credits from the following types of courses:
        - The thesis option requires a minimum of 6 hours of thesis credit and a successful defense of a thesis. Students may enroll in thesis hours after they have successfully completed the four required courses and their thesis committee has been approved by the department, college, and Graduate Studies. The students' permanent faculty adviser will chair their committee, which also will include two additional graduate sociology faculty members in the department. The additional members of the thesis committee are selected in consultation with the student's permanent faculty adviser. When a topic has been selected, students, in conjunction with their permanent adviser, will develop a thesis proposal. Copies of the proposal will be routed to members of their thesis committee and a proposal hearing scheduled. All students must pass a proposal hearing as well as a final oral defense of their thesis. Students who elect to write a thesis should become familiar with the university's requirements and deadlines for organizing and submitting the thesis.
    - **Nonthesis Option**
      - Complete all of the following
        - The nonthesis option requires that students complete SYA 6657 - Program Design and Evaluation and 3 additional hours of SYA 6918 - Directed Research, SYA 6946 - Internship or Practicum, SYA 6909 - Research Report, or SYA 6908 - Directed Independent Studies. Both the Program Design and Evaluation course (SYA 6657) and "directed research or internship" courses require community-oriented research projects to develop research skills in sociology.
        - Complete the following:
Earn at least 3 credits from the following types of courses:
SYA 6918 Directed Research 3 Credit Hours
SYA 6946 Internship or Practicum 3 Credit Hours
SYA 6909 Research Report 3 Credit Hours
SYA 6908 Directed Independent Studies 3 Credit Hours
Applied Project

Nonthesis students must complete an applied project. The nature and implementation of each project will be determined by the student and their advisor. Before students may begin the applied project, they must earn a grade of "B" (3.0) or better in each of the five core courses. An Applied Project evaluated by a three-person committee consists of: A 1-2 page proposal describing what the project and the final product will entail. A final product approved and evaluated by the committee. A brief statement submitted with the final product indicating how the project is sociologically grounded. The grading system for the project is Pass/No Pass. Students who receive a grade of Pass will be allowed to graduate assuming all other requirements are met.

Equipment Fee
0 Total Credits
- Full-time students in the Applied Sociology MA program pay a $39 equipment fee each semester that they are enrolled. Part-time students pay $19.50 per semester.

Independent Learning
0 Total Credits
- As with all graduate programs, independent learning is an important component in the Applied Sociology master's program. Students will demonstrate independent learning through research seminars and the thesis (thesis students only).

Grand Total Credits: 30

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Fellowship Information

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Sociology, Applied MA - Sociology, Applied MA, Domestic Violence Track

College
College of Sciences

Department
Department of Sociology

Track Website
https://sciences.ucf.edu/sociology/

Track Handbook
Sociology, Applied MA, Domestic Violence Track
**Track Contact Information**

**Timothy L. Hawthorne, PhD**  
Graduate Director & Associate Professor of Geographic Information Systems  
Department of Sociology  
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HPH, RM 403Q

**Bridgett J. Burk**  
Sociology Graduate Admissions Coordinator  
socadmissions@ucf.edu  
Telephone: 407-823-1198  
HPH, RM 403J

**Is this track available 100% online?**  
No

**Track Description**

The Department of Sociology offers a graduate program leading to a Master of Arts degree in Applied Sociology. Beyond a curriculum appropriate for general applied sociology, the program includes a graduate track in Domestic Violence as well as instruction and opportunities pertaining to the study of crime and deviance; social inequalities; and health, families and communities. A primary focus of the program is the variety of social problems in society. Toward this objective, the program promotes the application of sociological and social psychological knowledge, principles, and research skills in a variety of organizational, community, and institutional settings.

Examples of competencies in applied sociology include effective skills in program design and evaluation research; planning, feasibility and needs assessment studies; data management, analysis and presentation; and the application of general systems and social conflict theories to organizational problems, community development and planned change.

Degree-seeking students in the Applied Sociology program may choose either the thesis or a nonthesis course of study. Both options require 30 hours of course work, at least half of which must be at the 6000 level or above.

Degree seeking students in the Applied Sociology Program may elect to follow either a thesis or a non-thesis course of study. The thesis option is typically designed for students who plan to enter doctoral programs. The non-thesis option is more appropriate for students entering or continuing professional careers following the MA degree.

**Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree**

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Three letters of recommendation, including at least two from academic sources familiar with the applicant's academic abilities.
- A personal statement of 250-500 words identifying areas of research interest, faculty with whom they would like to work, and describing the applicant's academic and professional experiences and goals.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, and the applicant's potential for completing the degree. Note also that there is no automatic connection between acceptance as a non-degree-seeking student and acceptance into this degree-granting program. Consult the graduate program director whenever questions arise.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.
Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core
12 Total Credits

- Complete all of the following
  - Please note that students in the nonthesis option are required to complete a research study in each of the 12 hours of required courses to provide an independent learning experience. SYA 5625 - ProSeminar Should be taken as early as possible in your program.
  - Complete the following:
    - SYA5625 - ProSeminar (3)
    - SYA6126 - Social Theory (3)
    - SYA6305 - Social Research (3)
    - SYA6455 - Research Analysis (3)

Specialization
6 Total Credits

- Complete the following:
  - SYP5566 - Seminar on Domestic Violence: Theory, Research and Social Policy (3)
  - SYP6563 - Reactions to Domestic Violence (3)

Elective Courses
6 Total Credits

- Complete at least 2 of the following:
  - SYA6128 - Theoretical Criminology (3)
  - SYA6657 - Program Design and Evaluation (3)
  - SYP6561 - Child Abuse in Society (3)
  - SYP6515 - Deviant Behavior Issues (3)
  - SYP6522 - Sociological Perspectives on Victims (3)
  - SYP6546 - Crime, Law, Inequality (3)
  - SYD6809 - Seminar in Gender Issues (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete all of the following
  - Thesis Option
    - The thesis option requires a minimum of 6 hours of thesis credit and a successful defense of a thesis. Students may enroll in thesis hours after they have successfully completed the four required courses and their thesis committee has been approved by the department and college. The student's permanent faculty adviser will chair their committee, which also will include two additional graduate sociology faculty members in the department. The additional members of the thesis committee are selected in consultation with the student's permanent faculty adviser. When a topic has been selected, students, in conjunction with their permanent adviser, will develop a thesis proposal. Copies of the proposal will be routed to members of their thesis committee and a proposal hearing scheduled. All students must pass a proposal hearing as well as a final oral defense of their thesis. Students who elect to write a thesis should become familiar with the university's requirements and deadlines for organizing and submitting the thesis.
  - Nonthesis Option
    - Complete all of the following
      - The nonthesis option requires that students complete SYA 6657 - Program Design and Evaluation and 3 additional hours of elective course work in their area of specialization. The Program Design and Evaluation course (SYA 6657) requires community-oriented research projects to develop research skills in sociology.
Complete the following:
  - SYA6657 - Program Design and Evaluation (3)

Earn at least 3 credits from the following types of courses:
Directed Study for Applied Project Nonthesis students must complete an applied project. The nature and implementation of each project will be determined by the student and her/his adviser. Before students may begin the applied project, they must earn a grade of "B" (3.0) or better in each of the five core courses. The grading system for the project is Pass/No Pass. Students who receive a grade of Pass will be allowed to graduate assuming all other requirements are met. An Applied Project evaluated by a three-person committee consists of: A 1-2 page proposal describing what the project and the final product will entail. A final product approved and evaluated by the committee. A brief statement submitted with the final product indicating how the project is sociologically grounded.

Equipment Fee
0 Total Credits
  - Full-time students in the Applied Sociology MA program pay a $39 equipment fee each semester that they are enrolled. Part-time students pay $19.50 per semester.

Independent Learning
0 Total Credits
  - As with all graduate programs, independent learning is an important component in the Applied Sociology master's program. Students will demonstrate independent learning through research seminars and the thesis (thesis students only).

Grand Total Credits: 30

Track Details
Students must earn a grade of "B" (3.0) or better in the program's core courses. Courses may be retaken to achieve a better grade; however, students must maintain a minimum GPA of 3.0 in their program of study.

By the end of their first year of course work in the program, students should select a permanent faculty advisor and determine their preliminary program of study, either in the thesis or nonthesis track. Students should maintain close contact with their faculty advisor in order to develop a viable program of study and avoid graduation delays.

Financial Information
Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Sociology, Applied MA - Sociology, Applied MA, Medical Sociology Track

College
College of Sciences

Department
Department of Sociology

Track Website
https://sciences.ucf.edu/sociology/
Track Handbook

Sociology, Applied MA, Medical Sociology Track

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Is this track available 100% online?

No

Track Description

The Department of Sociology offers a graduate program leading to a Master of Arts degree in Applied Sociology. Beyond a curriculum appropriate for general applied sociology, the program includes a graduate track in Medical Sociology as well as instruction and opportunities pertaining to the study of crime and deviance; domestic violence; and social inequalities.

Medical Sociology is an important subfield of Sociology that was developed and recognized in 1959 by the American Sociological Association (ASA). Medical sociology identifies the processes of health, illness, and medical care as social phenomena. The American Sociological Association identifies the following research topics under the field of medical sociology: the subjective experience of health and illness, the political, economic and environmental circumstances surrounding health and illness, the societal structures and forces that constrain the medical care system, individual responses to illness, and social movements related to health and healthcare. Having a deep understanding of how social processes work to affect an individual's health allows for many different careers. Medical sociologists use their knowledge to work for governmental and non-governmental organizations centered on health. They work for federal, state, and private health insurance plans. Medical sociologists conduct research and make policy that addresses public health problems. Many students who study medical sociology enter medical school to become clinicians and teachers of medical education. Still others enter dental school, physical therapy school, or other professional programs in the allied fields of health and apply knowledge gained from Medical Sociology to improve their patients' lives.

Degree-seeking students in the Applied Sociology program may choose either the thesis or a nonthesis course of study. Both options require 30 hours of course work, at least half of which must be at the 6000 level or above.

Degree seeking students in the Applied Sociology Program may elect to follow either a thesis or a non-thesis course of study. The thesis option is typically designed for students who plan to enter doctoral programs. The non-thesis option is more appropriate for students entering or continuing professional careers following the MA degree.

Total Credit Hours Required: 30 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

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- Three letters of recommendation, including at least two (where possible) from academic sources familiar with the applicant's academic abilities.
- A personal statement of 250-500 words identifying areas of research interest connecting to thematic areas within the UCF Department of Sociology, faculty with whom they would like to work, and describing the applicant's academic and professional experiences and goals.
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- The applicant's records will be reviewed on an individual basis for academic deficiencies and evaluated to assess their potential for success in the program. Supplemental course work may be recommended.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, and the applicant's potential for completing the degree. Note also that there is no automatic connection between acceptance as a non-degree-seeking student and acceptance into this degree-granting program. Consult the graduate program director whenever questions arise.
Graduate Application Deadlines

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Institution Codes
GRE: 5233
GMAT: RZT-HT-S8
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core
12 Total Credits

- Complete all of the following
  - Please note that students in the nonthesis option are required to complete a research study in each of the 12 hours of required courses to provide an independent learning experience.
  - Complete the following:
    - SYA5625 - ProSeminar (3)
    - SYA6126 - Social Theory (3)
    - SYA6305 - Social Research (3)
    - SYA6455 - Research Analysis (3)

Specialization
6 Total Credits

- Complete the following:
  - SYO6406 - Medical Sociology (3)
  - SYO6405 - Sociology of Health and Illness (3)

Elective Courses
6 Total Credits

- Complete at least 2 of the following:
  - SYD6363 - Social Inequalities and Reproductive Health (3)
  - SYP6555 - Sociology of Alcohol and Drugs (3)
  - SYP6735 - Sociology of Health and Aging (3)
  - SYO6404 - Food Insecurity and Health (3)
  - SYO6409 - Social Inequalities in Health (3)

Thesis/Nonthesis Option
6 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Earn at least 6 credits from the following types of courses:
      - The thesis option requires a thesis proposal and defense, a minimum of 6 hours of thesis credit, and a written thesis along with a successful defense of a thesis. Students may enroll in thesis hours after they have successfully completed their core required courses, they have passed their thesis proposal defense, and their thesis committee has been
approved by the department and college. The student's permanent faculty advisor will chair their committee, which also will include two additional graduate faculty members. The additional members of the thesis committee are selected in consultation with the student's permanent faculty advisor, and may include faculty from related disciplines in consultation with the faculty advisor. When a topic has been selected, students, in conjunction with their permanent advisor, will develop a thesis proposal. Copies of the proposal will be routed to members of their thesis committee and a proposal defense will be scheduled. All students must pass a proposal defense as well as a final oral defense of their thesis. Students who elect to write a thesis should become familiar with the university's requirements and deadlines for organizing and submitting the thesis.

Nonthesis Option

- Complete all of the following
  - The nonthesis option requires that students complete SYA 6657 - Program Design and Evaluation and 3 additional hours of elective course work in their area of specialization. The Program Design and Evaluation course (SYA 6657) requires community-oriented research projects to develop research skills in sociology.
  - Complete the following:
    - SYA6657 - Program Design and Evaluation (3)
  - Earn at least 3 credits from the following types of courses:
    - Directed Study for Applied Project Nonthesis students must complete an applied project. The nature and implementation of each project will be determined by the student and her/his adviser. Before students may begin the applied project, they must earn a grade of "B" (3.0) or better in each of the five core courses. An Applied Project evaluated by a three-person committee consists of: A 1-2 page proposal describing what the project and the final product will entail. A final product approved and evaluated by the committee. A brief statement submitted with the final product indicating how the project is sociologically grounded. The grading system for the project is Pass/No Pass. Students who receive a grade of Pass will be allowed to graduate assuming all other requirements are met.

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0 Total Credits
- Full-time students in the Applied Sociology MA program pay a $39 equipment fee each semester that they are enrolled. Part-time students pay $19.50 per semester.

Independent Learning
0 Total Credits
- As with all graduate programs, independent learning is an important component in the Applied Sociology master's program. Students will demonstrate independent learning through research seminars and the thesis (thesis students only).

Grand Total Credits: 30

Track Details

Students must earn a grade of "B" (3.0) or better in the program's core courses. Courses may be retaken to achieve a better grade; however, students must maintain a minimum GPA of 3.0 in their program of study.

By the end of their first year of course work in the program, students should select a permanent faculty advisor and determine their preliminary program of study, either in the thesis or nonthesis track. Students should maintain close contact with their faculty advisor in order to develop a viable program of study and avoid graduation delays.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
funding.graduate.ucf.edu
The Sociology PhD program provides training in the skills necessary to secure research careers in both academic and non-academic professions and emphasizes applied research in community-based settings.

The Sociology PhD program is organized around a curriculum combining grounding in the acquisition of theoretical and methodological skills with advanced study in one of the department's four areas of concentration: Crime and Deviance; Domestic Violence; Health, Families, and Communities; and Social Inequalities.

The program is one of only a few in the United States focusing on applied research. Students are trained in specific applied research skills such as data analysis, qualitative methods, quantitative methods, mixed methods, Geographic Information Systems (GIS), and/or program evaluation. Combined with course work in one of the four substantive areas, graduates will be trained for employment in the following settings: the academy, industry, business, government, and nonprofit agencies. The program provides training in the skills necessary to secure advanced careers in academic and non-academic professions and emphasizes applied research in community-based settings.

The Sociology PhD requires a minimum of 60 credit hours beyond the master's degree, with 15 credit hours coming from required core courses, three credit hours from a restricted elective in theory, and three credit hours from a restricted elective in research methods and data analysis. Students select a minimum of 12 elective credit hours in one of the department's four areas of concentration: Crime and Deviance; Domestic Violence; Health, Families and Communities; or Social Inequalities.

Total Credit Hours Required: 60 Credit Hours Minimum beyond the Master's Degree

Program Prerequisites

Master's degree in a related field from an accredited institution recognized by UCF.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Master’s degree in a related field from an accredited institution (Note: Official, preliminary transcript reflecting Master’s degree in-progress may be submitted prior to first semester of enrollment. Final, official transcripts are required post admission to document completion of master’s degree.).
- The GRE is not required for admission to this program.
- Three letters of recommendation, (where possible) at least two from academic sources regarding the applicant's potential for success in the program.
- A 250-500 word personal statement identifying the area of research interest as it relates to the thematic areas of UCF Sociology, faculty with whom they would like to work with and a description of the applicant's academic and professional experiences and goals.
- Résumé or Curriculum Vitae.
- A writing sample, at least 2,500 words demonstrating the ability to complete advanced graduate work.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Applicant records will be reviewed on an individual basis to assess their potential for success in the program. Supplemental course work may be recommended. Consult the graduate program director whenever questions arise.

Meeting minimum UCF admissions criteria does not guarantee program admission. Final admission is also based on evaluation of the applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, and applicant's potential for completing the degree.

Graduate Application Deadlines

<table>
<thead>
<tr>
<th>Sociology PhD</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Core
9 Total Credits

- Complete the following:
  - SYA7019 - Advanced Sociological Theory (3)
  - SYA7309 - Advanced Sociological Research Methods (3)
  - SYA7407 - Advanced Data Analysis (3)
Theory
3 Total Credits

- Complete at least 1 of the following:
  - SYA6933 - Topics in Sociological Theory (3)
  - SYA6128 - Theoretical Criminology (3)

Research Methods
3 Total Credits

- Complete at least 1 of the following:
  - SYA6315 - Qualitative Research Methods (3)
  - SYA6425 - Design and Conduct of Social Surveys (3)
  - SYA7457 - Topics in Data Analysis (3)
  - SYA6356 - Geographic Information Systems in Society (3)
  - SYA6452 - GIS Applications (3)

Major Area of Concentration Electives
12 Total Credits

- Earn at least 12 credits from the following types of courses:
  Students will select a minimum of 12 credit hours of unrestricted electives in one of the department's four areas of concentration: Crime and Deviance Domestic Violence Health, Families and Communities Social Inequalities

Unrestricted Electives
18 Total Credits

- Earn at least 18 credits from the following types of courses:
  The unrestricted electives provide students with an opportunity to expand their doctoral training beyond the program's core courses and the electives in the student's major area of concentration. Unrestricted electives may include formal course work, graduate-level courses in programs outside the Sociology Department, independent study courses with a highly focused student/faculty research component, directed research, and doctoral research. At least 9 hours from concentration electives and unrestricted electives must consist of formal course work, exclusive of independent study. Unrestricted electives may be taken at any point in the student's program of study. Courses from other departments must be approved by the student's advisor and the Graduate Director.

Dissertation
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  SYA 7980 - Dissertation Research

Examinations
0 Total Credits

- Details:
  Section 1: Theoretical Foundations of Sociology
  0 Total Credits
  - All students will answer two of three questions. All students who take the exam in the same area of concentration in a given semester will receive the same three questions. One of the questions will require students to trace the connections between classical and contemporary sociological theories and a second question will require students to discuss the three central theoretical paradigms in sociology.

Section 2: Methods and Statistics
0 Total Credits

- All students will answer two of three questions. All students who take the exam in the same area of concentration in a given semester will receive the same three questions. One of the questions will require students to interpret statistical results in tabular form.

Section 3: Major Area of Concentration
0 Total Credits

- All students will answer three of four questions covering general information within the area of concentration. All students who take the exam in the same area of concentration in a given semester will receive the same four questions.

Committee
0 Total Credits

- The Qualifying Exams will be graded by a committee of three faculty members who teach or do research in the area of concentration. Prior to the final faculty meeting of each spring semester, four separate qualifying exam committees will be formed by faculty choosing to become a member of one or more areas of concentration. Each qualifying exam committee will create the exam to be used for the next academic year and select the three members who will be the Grading Committee.

Administration

2021-2022 Graduate Catalog
The Qualifying Exam will be offered to students twice during the academic year (once during the fall semester and once during the spring semester). Students must notify the Graduate Director and Graduate Admissions Coordinator by June 1 to take the exam in the fall semester or by October 1 to take the exam in the spring semester. They will select a major area of concentration. The exam will be distributed by the Graduate Admissions Coordinator via Webcourses. The exams typically are held the week prior to the beginning of the fall semester and the week prior to the start of the spring semester. Students will have 7 days to complete all sections of the exam and submit the exam via Webcourse. The Graduate Director will then distribute the exam to the appropriate grading committee. Students are expected to work on the Qualifying Exam alone, and all exams will be submitted to turnitin.com. Questions from students that come up during the exam should be directed to the Graduate Director who will solicit advice from the chair of the grading committee in the student’s area. Each grading committee will have three weeks to notify the Graduate Director of the student’s grade on the exam (High Pass, Pass, Conditional Pass, or Fail). A grade of conditional pass on an exam will require the student to revise and resubmit one or more questions identified as insufficient by the Grading Committee. The student will have one week to complete each question that must be rewritten. If a student fails the exam, he/she must retake the exam the next semester it is offered. If the exam is failed a second time, the student will be dismissed from the Ph.D. Program in Sociology. Accommodations for students with a documented disability will be made with advanced notice in consultation with the student and the appropriate campus office.

Candidacy Examination

0 Total Credits

- The dissertation proposal defense constitutes the program’s candidacy examination, and students who successfully pass their proposal defense along with other requirements shall be admitted to candidacy. The proposal will encompass an overview of the dissertation topic that includes an in-depth review of relevant literature, a precise statement of the research question, and specific research design (planned methodology and analysis). The student’s Dissertation Advisory Committee will supervise the preparation of the dissertation proposal and the defense hearing.

Admission to Candidacy

0 Total Credits

- The following are required to be admitted to candidacy and enroll in dissertation hours: Completion of all required course work, except for dissertation hours. Successful completion of the candidacy examination. Successful defense of the dissertation proposal. The dissertation advisory committee is formed, consisting of approved graduate faculty and graduate faculty scholars. Submittal of an approved program of study.

Dissertation

0 Total Credits

- A dissertation is required for completion of the Ph.D., along with an oral defense of the dissertation proposal and completed dissertation through a minimum of 15 credit hours, which students use to accomplish original research on a topic approved by their advisor and three additional committee members. One committee member must be from a relevant field outside the Department of Sociology. The dissertation must conform to standard disciplinary, institutional, and departmental practices. Students may not enroll for dissertation credit until they have completed all examinations in their program of study.

Equipment Fee

0 Total Credits

- Full-time students in the Sociology PhD program pay a $39 equipment fee each semester that they are enrolled. Part-time students pay $19.50 per semester.

Grand Total Credits: 60

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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2021-2022 Graduate Catalog
Fellowship Information

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gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Statistics and Data Science MS

College
College of Sciences

Department
Department of Statistics

Program Website
http://statistics.cos.ucf.edu/

Program Handbook
Statistics MS

Program Contact Information
Edgard Maboudou, PhD
Professor
Edgard.Maboudou@ucf.edu
Telephone: 407-823-2695
TC2 201

Is this program available 100% online?
No

Program Description

The Master of Science in Statistics and Data Science provides a sound foundation in statistical theory, statistical methods, numerical methods in statistics, and the application of computer methodology to statistical analyses. The MS is particularly suited for individuals who have completed an undergraduate program in mathematics, statistics, or computer science, but is also available to those from other disciplines who wish to develop an expertise in statistics and data science.

This degree has 1 track: Data Science Track. Please scroll to the bottom of this page for further details on this Track.

The Statistics and Data Science MS program requires a minimum of 36 credit hours beyond the bachelor's degree. The degree in Statistics and Data Science includes 21 credit hours of required courses, 15 credit hours of restricted electives, and passing a comprehensive examination.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Program Prerequisites

Students must have the following background and courses completed before applying to the Statistics & Data Science MS program. These courses are: MAC 2311C: Calculus with Analytic Geometry I, MAC 2312: Calculus with Analytic Geometry II, MAC 2313: Calculus with Analytic Geometry III, MAS 3105: Matrix and Linear Algebra or MAS 3106: Linear Algebra. These pre-required courses are basic undergraduate courses from the Math department.
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate admission requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Résumé.
- 3 Letters of Recommendation

Applicants not qualified for regular graduate status may be initially admitted to the university in non-degree-seeking status and later admitted to regular status once all deficiencies have been eliminated, although only nine hours of graduate course work taken as a non-degree-seeking student can count toward a graduate degree.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant’s abilities, past performance, recommendations, match of this program and faculty expertise to the applicant’s career/academic goals, and the applicant’s potential for completing the degree.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
21 Total Credits

- Complete all of the following
  - STA5205 - Experimental Design (3)
  - STA6106 - Statistical Computing I (3)
  - STA6236 - Regression Analysis (3)
  - STA6326 - Theoretical Statistics I (3)
  - STA6327 - Theoretical Statistics II (3)
  - STA6329 - Statistical Applications of Matrix Algebra (3)

- Note: STA 6106 provides an independent learning experience for the program. It requires a research project that results in a written report or oral presentation.

- Complete at least 1 of the following:
  - STA6246 - Linear Models (3)
  - STA6707 - Multivariate Statistical Methods (3)

Elective Courses
15 Total Credits

- Earn at least 15 credits from the following types of courses:
  Elective statistics courses will be selected by the student in consultation with the adviser. Certain graduate courses in computer science, mathematics, and engineering may also be selected if approved by the graduate program director. A listing and description of graduate courses offered by the Department of Statistics and Data Science is found in the "Courses" section.

Independent Learning
0 Total Credits

- STA 6106 provides the independent learning experience for the program. It requires a research project that results in a written report or oral presentation.

Grand Total Credits: 36

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Statistics and Data Science MS - Statistics and Data Science MS, Data Science Track

College
College of Sciences

Department
Department of Statistics
Is this track available 100% online?
No

Track Description
The Master of Science in Statistics and Data Science, Data Science track focuses on data analytics and its application to business, social, and health problems.

The Data Science track in the Statistics and Data Science MS program focuses on data analytics and its application to business, social, and health problems.

The program is particularly suited for individuals who have completed an undergraduate program in mathematics, statistics, economics, business, or other related fields, and wish to pursue a career in data science. Data scientists analyze massive data sets to uncover trends and associations, and make theoretically sound decisions on, for example, business, social, and health subjects. Data scientists have one of the most coveted jobs, as the demand for them far exceeds the existing number of qualified persons in the area. Currently, the work force in the data science industry consists mainly of individuals trained with post college education. To date, very few university degree programs exist for training students for such a large and growing industry in the United States.

The Data Science track in the Statistics and Data Science MS program is composed of 24 credit hours of required courses and 12 credit hours of restricted electives. Students must also pass a comprehensive written examination.

Total Credit Hours Required: 36 Credit Hours Minimum beyond the Bachelor's Degree

Track Prerequisites
Students must have the following background and courses completed before applying to the Statistics & Data Science, Data Science track MS program. These courses are: MAC 2311C: Calculus with Analytic Geometry I, MAC 2312: Calculus with Analytic Geometry II, MAC 2313: Calculus with Analytic Geometry III, MAS 3105: Matrix and Linear Algebra or MAS 3106: Linear Algebra. These pre-required courses are basic undergraduate courses from the Math department.

Application Requirements
For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate admission requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Official, competitive GRE or GMAT score taken within the last five years.
- Résumé.
- 3 Letters of Recommendation

Applicants not qualified for regular graduate status may be initially admitted to the university in non-degree-seeking status and later admitted to regular status once all deficiencies have been eliminated, although only nine hours of graduate course work taken as a non-degree-seeking student can count toward a graduate degree.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

Graduate Application Deadlines

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Mailing Address

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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
24 Total Credits

- Complete all of the following
  - Complete the following:
    - STA5104 - Advanced Computer Processing of Statistical Data (3)
    - STA6714 - Data Preparation (3)
    - STA6238 - Logistic Regression (3)
    - STA6326 - Theoretical Statistics I (3)
    - STA6327 - Theoretical Statistics II (3)
    - STA6236 - Regression Analysis (3)
    - STA5703 - Data Mining Methodology I (3)
    - STA6704 - Data Mining Methodology II (3)
  - Note: STA 5703 and STA 6704 both require research projects that fulfill the independent learning requirement for the program.

Elective Courses
12 Total Credits

- Complete all of the following
  - Select electives from the following courses. No more than one COP course can be selected.
  - Complete at least 4 of the following:
    - Course Not Found
    - COP5711 - Parallel and Distributed Database Systems (3)
    - COP6730 - Transaction Processing (3)
    - COP6731 - Advanced Database Systems (3)
    - STA5205 - Experimental Design (3)
    - STA5505 - Categorical Data Methods (3)
    - STA5825 - Stochastic Processes and Applied Probability Theory (3)
    - STA6106 - Statistical Computing I (3)
    - STA6226 - Sampling Theory and Applications (3)
    - STA6237 - Nonlinear Regression (3)
    - STA6507 - Nonparametric Statistics (3)
    - STA6707 - Multivariate Statistical Methods (3)
    - STA6857 - Applied Time Series Analysis (3)
    - STA6705 - Data Mining Methodology III (3)
    - FIN6406 - Strategic Financial Management (3)

Comprehensive Examination
0 Total Credits

- All students must take a comprehensive written examination covering the five courses STA 6326, STA 6327, STA 5104, STA 6714 and STA 6238. For full-time students, this examination will normally be taken just prior to the start of the second year of their graduate work. Students are allowed two attempts to pass the exam. Failure to pass after the second attempt will result in dismissal from the program.

Independent Learning
0 Total Credits

- STA 5703 and STA 6704 both require research projects that fulfill the independent learning requirement for the program. Both courses require students to build models for target variables of projects with very large sets of data, write a report, and then give an oral presentation on their independent learning experiences.

Grand Total Credits: 36

Track Details

All MS students must have an approved Plan of Study (POS) developed by the student and advisor that lists the specific courses to be taken as part of the degree. Students must maintain a minimum GPA of 3.0 in their POS, as well as a "B" (3.0) in all courses completed toward the degree and since admission to the program.
Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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Strategic Communication PhD

College
College of Sciences

Department
Nicholson School of Communication and Media

Program Website
https://communication.ucf.edu/degree/strategic-communication-ph-d/

Program Handbook
Strategic Communication PhD

Program Contact Information
Jennifer Sandoval, PhD
Associate Professor and Interim Coordinator Strategic Communication PhD
jennifer.sandoval@ucf.edu
Telephone: 407-823-5502
CMB 202

NSCM Graduate Student Services Coordinator
nicholsongrad@ucf.edu
Telephone: 407-823-5595
NSCM 238/CMB 203

Is this program available 100% online?
No
Program Prerequisites

An earned master's degree or its equivalent in Communication or a related field. The Director of Graduate Studies will evaluate the suitability and applicability of M.A. or M.S. degrees in other related disciplines for admission purposes.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Applicants should adhere to the application requirements outlined below. An application will not be reviewed for admission until it is verified as complete by the UCF College of Graduate Studies.

Meeting minimum UCF admission criteria does not guarantee program admission. Final admission is based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program and faculty expertise to the applicant's career/academic goals, and the applicant's potential for completing the degree.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- An earned master's degree or its equivalent in Communication or a related field. The Director of Graduate Studies will evaluate the suitability and applicability of M.A. or M.S. degrees in other related disciplines for admission purposes. Applicants must have a minimum cumulative GPA of 3.0 for all graduate work and must also have a cumulative 3.0 GPA in their undergraduate degree.
- The GRE is not required for admission to this program.
- Three letters of reference that evaluate the applicant's academic performance and their suitability and potential for undertaking doctoral study, at least one of which must be written by a faculty member at the institution where the master's degree was earned, preferably the thesis advisor or Graduate Program Director.
- A personal statement of 500 words identifying areas of research interest in strategic communication, faculty with whom they would like to work, and describing the applicant's academic and professional experiences and future career goals.
- A writing sample of the applicant's work that is at least 2500 words long and demonstrates the ability to complete graduate-level research.
- Résumé.
- Applicants to this program, except those that have earned or will earn a Masters or Doctoral degree from an accredited U.S. institution recognized by UCF, who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

International applicants whose first language is not English are required to submit results of the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) unless they hold a degree from a U.S. accredited institution. The TOEFL is strongly preferred. The minimum TOEFL score for full admissions consideration is 90 on the Internet-based test (IBT) and must take the speaking portion of the TOEFL and score a 26 or higher, 232 on the computer-based test, or 575 on the paper-based test. The minimum IELTS score is 7.0. Applicants should plan to take the appropriate test no later than December to ensure consideration of their applications by the January 15 deadline. Applicants' records will be reviewed on an individual basis for academic deficiencies and evaluated to assess their potential for success in the program. Supplemental course work may be recommended. Consult the graduate program director whenever questions arise. Meeting minimum UCF admissions criteria does not guarantee program admission. Final admission is also based on an evaluation of the applicant's abilities, past performance, recommendations, match of this program to the applicant's career/academic goals, applicant's potential for completing the degree, and the interview.

Selection committee: Applicants for admission into the doctoral program will be reviewed and recommended for acceptance by the NSCM Doctoral Committee. The Doctoral Committee will be chaired by the Director of Graduate Studies and comprised of five additional representatives from the graduate faculty in the Nicholson School of Communication and Media.
Graduate Application Deadlines

<table>
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<tr>
<th>Strategic Communication PhD</th>
<th>*Fall Priority</th>
<th>Fall</th>
<th>Spring</th>
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<td>International Applicants</td>
<td>Jan 1</td>
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</tbody>
</table>

Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

Graduate School Contact

Anthony Tufano  
gradadmissions@ucf.edu  
Telephone: 407-823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Colloquium  
0 Total Credits

- Complete the following:  
  - COM7920 - Doctoral Colloquium (99)

Core Requirements  
9 Total Credits

- Complete the following:  
  - COM7464 - Theory Building for Strategic Communication (3)  
  - COM7529 - Strategic Communication (3)  
  - COM7821 - Instructional Communication in Strategic Contexts (3)

Research Requirements  
12 Total Credits

- Complete the following:  
  - COM6303 - Qualitative Research Methods in Communication (3)  
  - COM6304 - Quantitative Research Methods in Communication (3)  
  - COM7325 - Seminar in Research Methods (3)  
  - SPC7685 - Rhetorical Criticism of Strategic Communication (3)

Community Engagement Requirement  
3 Total Credits

- Complete all of the following  
  - Earn at least 3 credits from the following:  
    - COM6918 - Directed Research (1 - 99)  
    - COM7528 - Communication and Community Engagement (1 - 99)  
  - COM 6946 Internship may also be taken

Restricted Elective Courses (Choose one)  
6 Total Credits

- Complete 1 of the following  
  - Concentration in Risk and Crisis Communication
Complete the following:

- COM7236 - Seminar in Risk and Crisis Communication (3)
- COM7815 - Risk Communication (3)

Concentration in Health Communication

Complete the following:

- COM7025 - Health Communication (3)
- COM7227 - Seminar in Health Communication (3)

Unrestricted Electives

15 Total Credits

- Complete all of the following:
  - Upon consultation with, and approval of the student's advisor, a student may complete up to 6 hours of elective courses from outside the NSCM (e.g., Emergency Management, Public Affairs). Note: Non-NSCM courses might not be offered on the Downtown campus and will require students to attend the course at the UCF Main campus.
  - Earn at least 15 credits from the following:
    - COM6535 - Communication Campaigns (3)
    - COM6046 - Interpersonal Communication (3)
    - COM6145 - Organizational Communication (3)
    - COM6401 - Communication Theory (3)
    - COM6425 - Symbolism in Terrorism (3)
    - COM6463 - Studies in Intercultural Communication (3)
    - COM6467 - Studies in Persuasion (3)
    - COM6918 - Directed Research (1 - 99)
    - COM7745 - Current Issues in Communication (3)
    - COM7815 - Risk Communication (3)
    - COM7025 - Health Communication (3)
    - MMC6567 - New Media (3)
    - MMC6600 - Media Effects and Audience Analysis (3)
    - PUR6005 - Theories of Public Relations (3)
    - PUR6403 - Crisis Public Relations (3)
    - COM7528 - Communication and Community Engagement (1 - 99)

- COM 6946 Internship may also be taken

Dissertation

15 Total Credits

- Earn at least 15 credits from the following types of courses:
  - COM 7980 Dissertation Research

**Grand Total Credits: 60**

**Financial Information**

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

**UCF Student Financial Assistance**

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Survey Research Graduate Certificate
College
College of Sciences

Department
School of Politics, Security, and International Affairs

Program Contact Information
Jonathan Knuckey, PhD
Associate Professor
Jonathan.Knuckey@ucf.edu
407-823-2608
PHP 302L

Is this program available 100% online?
No

Program Description
The Survey Research Certificate will prepare students for work as a professional or academic survey researcher. Course requirements ensure that students are well-trained as designers and analysts for surveys, and that they have an understanding of the use and application of survey methods.

Total Credit Hours Required: 12 Credit Hours Minimum beyond the Bachelor's Degree

Application Requirements
Admission is available to applicants with a bachelor's degree from an accredited institution recognized by UCF. Applicants must apply online. All requested materials must be submitted by established deadlines.

Applicants to this program must provide:

- Official Transcripts
- Statement of Purpose of 500 words or fewer
- Current CV or Resume

Admission to this certificate program is competitive; applicants are not guaranteed admission. While the program does not have specific pre-requisite courses that need to be completed prior to enrollment in the program, applicants should demonstrate their preparedness to succeed in quantitative methods courses in their application materials.

Graduate Application Deadlines

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<tr>
<th>Survey Research</th>
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Graduate School Contact

Anthony Tufano
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address
UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes
GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233
Degree Requirements

Required Courses
12 - 13 Total Credits

- In order to complete the certificate, students must complete one course in survey research methodology (Group 1), one course in research design (Group 2), an eligible advanced research methods course (Group 3), and an eligible course in which survey research is the principal mode of empirical inquiry (Group 4). Because survey research training is available in different departments, students may choose to fulfill these requirements using courses offered by a single department or by using courses offered by multiple departments (subject to availability). Certificate-only students will consult with the certificate program advisor in selecting their courses.

Group 1: Survey Research Methods Course
3 Total Credits

- Complete at least 1 of the following:
  - INP6072 - Survey Research Methods and Program Evaluation in Indust. and Org. Psychology (3)
  - POS6757 - Survey Design for Political Science Research (3)
  - STA6223 - Conventional Survey Methods (3)
  - SYA6425 - Design and Conduct of Social Surveys (3)

Group 2: Quantitative Research Course
3 - 4 Total Credits

- Complete at least 1 of the following:
  - CCJ6706 - Data Analysis in Criminal Justice I (3)
  - COM6304 - Quantitative Research Methods in Communication (3)
  - POS6746 - Quantitative Methods in Political Research (3)
  - POS7745 - Advanced Quantitative Methods in Political Research (3)
  - PSEY6216C - Research Methodology (4)
  - STA5206 - Statistical Analysis (3)
  - SYA6305 - Social Research (3)

Group 3: Advanced Methodological Course
3 Total Credits

- Complete at least 1 of the following:
  - POS6729 - Political Network Analysis (3)
  - POS6743 - Geographic Tools for Political Science Research (3)
  - POS6747 - Advanced Topics in Quantitative Political Analysis (3)
  - STA6224 - Bayesian Survey Methods (3)
  - STA6226 - Sampling Theory and Applications (3)
  - SYA6452 - GIS Applications (3)
  - SYA7309 - Advanced Sociological Research Methods (3)
  - SYA7407 - Advanced Data Analysis (3)

Survey Research in Context
3 Total Credits

- Complete at least 1 of the following:
  - MMC6567 - New Media (3)
  - MMC6600 - Media Effects and Audience Analysis (3)
  - MMC6735 - Social Media as Mass Communication (3)
  - POS6045 - Seminar in American National Politics (3)
  - POS6079 - The Politics of Race, Ethnicity, Gender, and Class in the United States (3)
  - POS6207 - Political Behavior (3)
  - SYD6705 - Seminar in Race and Ethnicity (3)
  - SYD6809 - Seminar in Gender Issues (3)
  - SYP5566 - Seminar on Domestic Violence: Theory, Research and Social Policy (3)

Grand Total Credits: 12 - 13

Rosen College of Hospitality Management

Destination Marketing and Management Graduate Certificate

College
Rosen College of Hospitality Management
Department
Rosen College of Hospitality Management Dean's Office

Program Website
http://www.hospitality.ucf.edu/

Program Contact Information

David Kwun PhD
Associate Professor MS Programs Coordinator
David.Kwun@ucf.edu
Telephone: (407) 903-8190
RCHM 277

Kathy Henry MPA
Assistant Director, Graduate Programs Academic Adviser
Kathy.Henry@ucf.edu
Telephone: (407) 903-8024
RCHM 102

Is this program available 100% online?
Yes

UCF Online

Please note: Destination Marketing and Management Graduate Certificate may be completed fully online, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at 407-823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Destination Marketing and Management provides knowledge and information that facilitates the effective marketing and management of tourist destinations. The certificate covers the strategies for creating integrated destination marketing and management systems, critically reviews those issues and techniques of international tourism management with a particular focus on the economic, socio-cultural and environmental impacts of tourist development at destinations, and analyzes the quantitative impact of tourism as an industry both within and beyond tourist destinations.

Students learn to synthesize theory and application at the graduate level in order to produce the knowledge base necessary to fully utilize available techniques and strategies for the effective marketing and management of tourist destinations. Students successfully completing this certificate may already be in destination marketing or management positions or seeking such roles in this exciting and growing field.

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

In addition to the above application requirements, all applicants to this certificate program will be required to submit:

- One official transcript (in a sealed envelope) from each college/university attended.
- Goal statement (this is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally)
- Résumé.
- The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

These documents must be attached to the application. The goal statement should address the applicant's interest in pursuing the certificate program and fully discuss any experience that he or she has had in the field. A minimum of 2 years of full-time post-undergraduate work experience is required for admission.
Graduate Application Deadlines

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Graduate School Contact

Saudia Yassin  
gradadmissions@ucf.edu  
Telephone: (407) 823-2766  
Millican Hall 230  
Online Application  
Graduate Admissions

Mailing Address

UCF College of Graduate Studies  
Millican Hall 230  
PO Box 160112  
Orlando, FL 32816-0112

Institution Codes

GRE: 5233  
GMAT: RZT-HT-58  
TOEFL: 5233  
ETS PPI: 5233

Degree Requirements

Required Courses  
9 Total Credits

- Complete all of the following
  - There is no specific course sequence in that a number of sections of each course are available throughout the year with students able to commence in the Fall, Spring or Summer semester. One course, and sometimes more, are offered each term.
  - Complete the following:
    - HMG6710 - International Tourism Management (3)
    - HMG6566 - Principles of Destination Marketing and Management (3)
    - HMG6738 - Tourism Industry Analysis (3)

Grand Total Credits: 9

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Event Leadership MS

College

Rosen College of Hospitality Management

Department

Department of Tourism, Events, and Attractions

Program Website

https://hospitality.ucf.edu/graduate-degree-programs/
Program Contact Information

David Kwun PhD
Associate Professor
MS Programs Coordinator
David.Kwun@ucf.edu
Telephone: 407-903-8190
RCHM 277

Kathy Henry MPA
Assistant Director, Graduate Program Academic Advisor
Kathy.Henry@ucf.edu
Telephone: 407-903-8024
RCHM 102C

Is this program available 100% online?
Yes

UCF Online

Please note: Event Leadership (MS) is a fully-online program. All courses are currently online courses. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students studying outside of the USA do not require a visa to complete this program. Fully online programs are not eligible for an F-1 or J-1 student visa. Please contact the Program Coordinator to discuss admission.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Master of Science in Event Leadership enables students to build on their strengths and interests, broaden their knowledge of the event industry, sharpen their management, leadership, and analytical skills, and incorporate their professional and extracurricular experiences.

This program prepares students for an industry that continues to evolve. From an industry traditionally focused on logistics to one requiring a broad range of leadership and managerial skills, including strategy formulation, relationship management, marketing, and risk management, this graduate degree program is designed with this paradigm in mind. It will prepare graduates for an ever-changing and challenging field that provides tremendous economic and social benefits to communities of all sizes.

The typical Event Leadership MS candidate:

- Is a professional working in a management or leadership position related to events.
- Holds an undergraduate degree in event management, hospitality management, business management, or a related discipline.
- Wishes to acquire advanced educational training to be competitive in the thriving event industry.

The Rosen College of Hospitality Management aims to provide students with an outstanding graduate educational experience and serve other stakeholders with continuing education, research, and service. The College is committed to UCF's goals by providing intellectual leadership through quality graduate education and international prominence by means of educational and research programs nurturing inclusiveness and diversity, with a global perspective, and partnerships with local, national, and international constituencies.

Program Prerequisites

There are no undergraduate course prerequisites for this program, provided candidates have a degree in event management, hospitality management, business management, or a related discipline.
**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission is restricted in the Fall term only each year to individuals showing high promise of success in postgraduate studies. In addition to the requirements noted below, other indicators of promise include the applicant’s extracurricular activities, work experience, job responsibilities, and leadership experience, which will be considered in making admissions decisions.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- The GRE is not required for admission to this program.
- Goal statement (in 500 words, the applicant’s reason for joining the program, what they will contribute to the program, and how they feel the program will enhance them both personally and professionally)
- Résumé.
- Three letters of recommendation.
- Applicants of this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

**Graduate Application Deadlines**

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**Graduate School Contact**

**Saudia Yassin**

gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

**Mailing Address**

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

**Institution Codes**

- GRE: 5233
- GMAT: RZT-HT-58
- TOEFL: 5233
- ETS PPI: 5233
Degree Requirements

Required Courses

30 Total Credits

- Complete all of the following
  - Year 1 - Fall
    - Complete the following:
      - HMG6507 - Event Trends, Technology and the Macroenvironment (3)
      - HMG6002 - Advanced Event Design (3)
  - Year 1 - Spring
    - Complete the following:
      - HMG6563 - Marketing of Events (3)
      - HMG6568 - Destination Planning for Events (3)
  - Year 1 - Summer
    - Complete the following:
      - HMG6012 - Events Across Borders (3)
      - HMG6010 - Relationship Management in Events (3)
  - Year 2 - Fall
    - Complete the following:
      - HMG6584 - Event Analytics (3)
      - HMG6604 - Legal Environment of Events (3)
  - Year 2 - Spring
    - Complete the following:
      - HMG6011 - Contemporary Issues in Event Management (3)
      - HMG6220 - The Reflective Leader (3)

Grand Total Credits: 30

Financial Information

Graduate students may receive external financial assistance through fellowships, assistantships, tuition support, or loans. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance

Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships

Telephone: 407-823-0127
gradfellowship@ucf.edu
https://graduate.ucf.edu/funding/

Event Management Graduate Certificate

College

Rosen College of Hospitality Management

Department

Rosen College of Hospitality Management Dean's Office

Program Website

http://www.hospitality.ucf.edu/
Program Description

The Graduate Certificate in Event Management provides knowledge and information that facilitates the effective organization and management of events in the public, private and third sector contexts.

The certificate covers the administration of events (e.g. promotion, budgeting, marketing, production, legal issues, customer service, ticketing and concession), the selling and marketing of conventions and conferences, and the organization and administration of mega-events. Events are such an integral component of many industries today that although with a strong focus on tourism and hospitality, the certificate incorporates a number of perspectives with event legacies being a particularly pertinent issue for all coursework.

Students learn to synthesize theory and application at the graduate level in order to produce the knowledge base necessary to fully utilize available techniques and strategies for the effective organization, marketing, and management of events, conventions, and conferences. Students successfully completing this certificate may already be in event management positions or seeking such roles in the public, private or third sectors.

Application Requirements

Admission is open to those with a bachelor's degree from an accredited institution recognized by UCF. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

In addition to the above application requirements, all applicants to this certificate program will be required to submit:

- One official transcript (in a sealed envelope) from each college/university attended.
- Goal statement (this is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally)
- Résumé.
- The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

These documents must be attached to the application. The goal statement should address the applicant's interest in pursuing the certificate program and fully discuss any experience that he or she has had in the field. A minimum of 2 years of full-time post-undergraduate work experience is required for admission.
Graduate Application Deadlines

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Graduate School Contact

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gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
9 Total Credits
- Complete all of the following
  - There is no specific course sequence in that a number of sections of each course are offered every year with students able to commence in the Fall, Spring or Summer semester. One course, and sometimes more, are offered each term.
  - Complete the following:
    - HMG6797 - Event Administration (3)
    - HMG6528 - Convention and Conference Sales and Services (3)
    - HMG6756 - Mega-Events (3)

Grand Total Credits: 9

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

Hospitality and Tourism Management MS

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Program Website
http://www.hospitality.ucf.edu/

Program Handbook
Hospitality and Tourism MS Handbook
Program Contact Information

David Kwun PhD
Associate Professor
MS Programs Coordinator
David.Kwun@ucf.edu
Telephone: 407-903-8190
RCHM 277

Kathy Henry MPA
Assistant Director, Graduate Program Academic Advisor
Kathy.Henry@ucf.edu
Telephone: 407-903-8024
RCHM 102C

Is this program available 100% online?
Yes

UCF Online

Please note: Hospitality and Tourism Management (MS) may be completed fully online. However, the thesis option is not available to students who study fully online, and not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Master of Science in Hospitality and Tourism Management enables students to build on their strengths and interests, broadens their knowledge of the industry, sharpens their management skills, and incorporates their professional and extracurricular experiences. The Rosen College of Hospitality Management candidates are especially attractive hires for hospitality and tourism organizations around the globe.

The typical Hospitality and Tourism Management MS candidate:

- Is a professional working in a position related to hospitality, tourism, or events.
- Holds an undergraduate degree in hospitality, business management, or a related discipline.
- Understands that advanced educational training is required to be competitive in the thriving hospitality, tourism, and event industry.

The program offers thesis and non-thesis options. The thesis option is intended for students who are interested in the scientific study of the various aspects of the hospitality and tourism industry and who may anticipate pursuing a doctoral degree or a professional research position. The non-thesis option is intended for students who anticipate a managerial and leadership position in the hospitality and tourism industry. The emphasis of the non-thesis option is on coursework, practical experience, and real-world insight. You can complete your degree either fully online, face-to-face, or customize it through a mix of both to fit your schedule and budget, although the thesis option is not available to students who study fully online.

The Rosen College of Hospitality Management aims to provide students with an outstanding graduate hospitality management educational experience and serve other stakeholders with continuing education, research, and service. The College is committed to UCF goals by providing intellectual leadership through quality hospitality education, international prominence by means of educational and research programs, promotion of a global perspective, nurturing inclusiveness and diversity, and partnerships with local, national, and international hospitality and tourism constituencies.

The MD Track is designed to accommodate UCF medical students who wish to pursue a Hospitality and Tourism MS concurrently while pursuing their medical degree. Please scroll to the bottom of this page for further details on this Track.
**Program Prerequisites**

For students with undergraduate majors in Hospitality Management or Business Administration, there will be no undergraduate course prerequisites, provided they have successfully completed an undergraduate course in statistics or applied quantitative analysis with a grade of "C" or higher.

For industry professionals with an undergraduate degree in a discipline other than Hospitality Management or Business Administration, the following two undergraduate courses "may" be required to be completed with a grade of "B" or higher within the first year of course work in the program (decisions are made at the discretion of the Graduate Recruitment Team).

- HFT 2401 - Hospitality Industry Financial Accounting
- HFT 3431 - Hospitality Industry Managerial Accounting

Students would also have to have successfully completed an undergraduate course in statistics or applied quantitative analysis with a grade of "C" or higher within the first year of course work in the program. The following undergraduate courses "may" be required to be completed with a grade of "B" or higher within the first year of course work in the program (decisions are made at the discretion of the Graduate Recruitment Team).

- STA 2401 or STA 2023 or
- HFT 3465 Applied Quantitative Analysis for the Hospitality and Tourism Industry

**Application Requirements**

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission is restricted each semester to individuals showing high promise of success in postgraduate studies. In addition to the requirements noted below, other indicators of promise include the applicant's extracurricular activities, work experience, job responsibilities, and leadership experience, which will be considered in making admissions decisions.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Goal statement (this is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally)
- Résumé.
- Three letters of recommendation.
- The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

**Graduate Application Deadlines**

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**Application Deadlines Notes**

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.*
Graduate School Contact

Saudia Yassin
gradadmissions@ucf.edu
Telephone: 407-823-2766
Millican Hall 230
Online Application
Graduate Admissions

Mailing Address

UCF College of Graduate Studies
Millican Hall 230
PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
18 Total Credits

- Complete the following:
  - HMG6228 - Critical Issues in Hospitality Human Resources (3)
  - HMG6245 - Managing Hospitality and Guest Services Organizations (3)
  - HMG6477 - Financial Analysis of Hospitality Enterprises (3)
  - HMG6585 - Data Analysis in Hospitality and Tourism Research (3)
  - HMG6596 - Strategic Marketing in Hospitality and Tourism (3)
  - HMG6296 - Hospitality/Tourism Strategic Issues (3)

Thesis Option/Nonthesis Option
15 Total Credits

- Complete 1 of the following
  - Thesis Option
    - Complete all of the following
      - An appropriate culminating academic experience is required of all master's degree candidates. For those students in the thesis option, a thesis defense is required. Thesis defenses will be approved by a majority vote of the thesis advisory committee. Further approval is required by the Dean of the Rosen College of Hospitality Management and the UCF College of Graduate Studies before final acceptance of the thesis in fulfilling degree requirements.
      - Complete the following:
        - HMG6586 - Research Methods in Hospitality and Tourism (3)
    - Earn at least 6 credits from the following:
      - HMG6971 - Treatise (Thesis OR Research Report) (1 - 99)
  - Nonthesis Option
    - Earn at least 6 credits from the following:
      - FSS6365 - Management of Food Service Operations (3)
      - HMG6227 - Advanced Training and Development in the Hospitality Industry (3)
      - HMG6251 - The Management of Lodging Operations (3)
      - HMG6267 - Case Studies in Restaurant Management (3)
      - HMG6291 - Hospitality Entrepreneurship: Concept Creation to Capitalization (3)
      - HMG6347 - Contemporary Issues in the Resort Industry (3)
      - HMG6446 - Hospitality/Tourism Information Technology (3)
      - HMG6476 - Feasibility Studies for the Hospitality/Tourism Enterprises (3)
      - HMG6528 - Convention and Conference Sales and Services (3)
      - HMG6529 - Contemporary Issues in Resort Sales Management (3)
      - HMG6533 - Hospitality/Tourism Industry Brand Management (3)
      - HMG6556 - Digital Marketing and Big Data Management for Hospitality and Tourism (3)
      - HMG6565 - Social Media in Hospitality and Tourism (3)
      - HMG6566 - Principles of Destination Marketing and Management (3)
      - HMG6586 - Research Methods in Hospitality and Tourism (3)
      - HMG6710 - International Tourism Management (3)
      - HMG6738 - Tourism Industry Analysis (3)
      - HMG6756 - Mega-Events (3)
      - HMG6797 - Event Administration (3)
      - HMG6466 - Applied Revenue Management Techniques in Hospitality (3)
Complete all of the following

- An appropriate culminating academic experience is required of all master's degree candidates. For students in the non-thesis option, an appropriate culminating academic experience is the successful completion of HMG 6296 - Hospitality/Tourism Strategic Issues, a required course in the curriculum that is designated as a capstone course. This capstone course acquaints students with the principles of strategic decision-making in various sectors of the tourism and hospitality industry. Students are required to apply skills, knowledge, and understanding in order to identify areas of concern encountered by managers responsible for formulating and implementing operational strategies.
- Earn at least 15 credits from the following:
  - FSS6365 - Management of Food Service Operations (3)
  - HMG6227 - Advanced Training and Development in the Hospitality Industry (3)
  - HMG6251 - The Management of Lodging Operations (3)
  - HMG6267 - Case Studies in Restaurant Management (3)
  - HMG6291 - Hospitality Entrepreneurship: Concept Creation to Capitalization (3)
  - HMG6347 - Contemporary Issues in the Resort Industry (3)
  - HMG6446 - Hospitality/Tourism Information Technology (3)
  - HMG6476 - Feasibility Studies for the Hospitality/Tourism Enterprises (3)
  - HMG6528 - Convention and Conference Sales and Services (3)
  - HMG6529 - Contemporary Issues in Resort Sales Management (3)
  - HMG6533 - Hospitality/Tourism Industry Brand Management (3)
  - HMG6556 - Digital Marketing and Big Data Management for Hospitality and Tourism (3)
  - HMG6565 - Social Media in Hospitality and Tourism (3)
  - HMG6566 - Principles of Destination Marketing and Management (3)
  - HMG6586 - Research Methods in Hospitality and Tourism (3)
  - HMG6710 - International Tourism Management (3)
  - HMG6738 - Tourism Industry Analysis (3)
  - HMG6756 - Mega-Events (3)
  - HMG6797 - Event Administration (3)
  - HMG6646 - Applied Revenue Management Techniques in Hospitality (3)

Independent Learning

Candidates for the MS degree are constantly challenged with numerous requirements to engage in independent learning during the program of study through special projects and papers. For students in the non-thesis option, an appropriate culminating academic experience is the successful completion of HMG 6296 - Hospitality/Tourism Strategic Issues, a required course in the curriculum that is designated as a capstone course. HMG 6296 should be taken during the final term of study, and enrollment is based on approval. This capstone course acquaints students with the principles of strategic decision-making in various sectors of the tourism and hospitality industry. Students are required to apply skills, knowledge, and understanding in order to identify areas of concern encountered by managers responsible for formulating and implementing operational strategies.

Grand Total Credits: 33

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Miallican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu

Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Hospitality and Tourism Management MS - Hospitality and Tourism Management MS, MD Track

2021-2022 Graduate Catalog
Is this track available 100% online?

No

Track Description

The Master of Science in Hospitality and Tourism Management enables students to build on their strengths and interests; broadens their knowledge of the industry; sharpens their management skills; and incorporates their professional and extracurricular experiences.

The MD Track is designed to accommodate UCF medical students who wish to pursue a Hospitality and Tourism MS concurrently while pursuing their medical degree. Students enrolled in the MD track will witness and experience adaptable elements to effect a cultural change in the practice of medicine vis-a-vis the concept of hospitality and service-oriented business models.

Track Prerequisites

For students with undergraduate majors in Hospitality Management or Business Administration, there will be no undergraduate course prerequisites, provided they have successfully completed an undergraduate course in statistics or applied quantitative analysis with a grade of "C" or higher.

For industry professionals with an undergraduate degree in a discipline other than Hospitality Management or Business Administration, the following two undergraduate courses "may" be required to be completed with a grade of "B" or higher within the first year of course work in the program (decisions are made at the discretion of the Graduate Recruitment Team).

- STA 2014 - Principles of Statistics or STA 2023 Statistical Methods or
- HFT 3930 - Applied Quantitative Analysis for the Hospitality and Tourism Industry

Students would also have to have successfully completed an undergraduate course in statistics or applied quantitative analysis with a grade of "C" or higher within the first year of course work in the program. The following undergraduate courses "may" be required to be completed with a grade of "B" or higher within the first year of course work in the program (decisions are made at the discretion of the Graduate Recruitment Team).

- STA 2401 or STA 2023 Principles of Statistics or
- HFT 3930 Applied Quantitative Analysis for the Hospitality and Tourism Industry
Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

Admission is restricted each semester to individuals showing high promise of success in postgraduate studies. In addition to the requirements noted below, other indicators of promise include the applicant's extracurricular activities, work experience, job responsibilities, and leadership experience, which will be considered in making admissions decisions.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- Goal statement (this is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally)
- Résumé.
- Three letters of recommendation.
- The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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Online Application
Graduate Admissions

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Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

2021-2022 Graduate Catalog
Degree Requirements

Required Courses
18 Total Credits

- Complete the following:
  - HMG6228 - Critical Issues in Hospitality Human Resources (3)
  - HMG6245 - Managing Hospitality and Guest Services Organizations (3)
  - HMG6477 - Financial Analysis of Hospitality Enterprises (3)
  - HMG6585 - Data Analysis in Hospitality and Tourism Research (3)
  - HMG6596 - Strategic Marketing in Hospitality and Tourism (3)
  - HMG6296 - Hospitality/Tourism Strategic Issues (3)

Electives
15 Total Credits

- Earn at least 15 credits from the following:
  - FSS6365 - Management of Food Service Operations (3)
  - HMG6227 - Advanced Training and Development in the Hospitality Industry (3)
  - HMG6251 - The Management of Lodging Operations (3)
  - HMG6267 - Case Studies in Restaurant Management (3)
  - HMG6291 - Hospitality Entrepreneurship: Concept Creation to Capitalization (3)
  - HMG6347 - Contemporary Issues in the Resort Industry (3)
  - HMG6446 - Hospitality/Tourism Information Technology (3)
  - HMG6586 - Research Methods in Hospitality and Tourism (3)
  - HMG6476 - Feasibility Studies for the Hospitality/Tourism Enterprises (3)
  - HMG6528 - Convention and Conference Sales and Services (3)
  - HMG6529 - Contemporary Issues in Resort Sales Management (3)
  - HMG6946 - Internship (1 - 99)
  - HMG6556 - Digital Marketing and Big Data Management for Hospitality and Tourism (3)
  - HMG6565 - Social Media in Hospitality and Tourism (3)
  - HMG6566 - Principles of Destination Marketing and Management (3)
  - HMG6710 - International Tourism Management (3)
  - HMG6738 - Tourism Industry Analysis (3)
  - HMG6756 - Mega-Events (3)
  - HMG6797 - Event Administration (3)
  - BMS6050 - Psychosocial Issues in Healthcare (4)
  - BMS6911 - Focused Inquiry and Research Experience II (5)

Independent Learning
0 Total Credits

- Candidates for the MS degree are constantly challenged with numerous requirements to engage in independent learning during the program of study through special projects and papers. An appropriate culminating academic experience is the successful completion of HMG 6296 - Hospitality/Tourism Strategic Issues, a required course in the curriculum that is designated as a capstone course. HMG 6296 should be taken during the final term of study, and enrollment is based on approval. This capstone course acquaints students with the principles of strategic decision-making in various sectors of the tourism and hospitality industry. Students are required to apply skills, knowledge, and understanding in order to identify areas of concern encountered by managers responsible for formulating and implementing operational strategies.

Grand Total Credits: 33

Track Details

Candidates for the MS degree are constantly challenged with numerous requirements to engage in independent learning during the program of study through special projects and papers. For example, the capstone course (i.e., the last one that you complete prior to graduation), HMG 6296 - Hospitality/Tourism Strategic Issues, requires a critical strategic audit project and a reflective paper. The project demonstrates a range of cross-discipline knowledge and analytical skills to perform an executive-level analysis of an enterprise. The reflective paper has guiding questions that are subjective in nature and successful completion requires a thorough, insightful, and well-articulated document that describes the learner’s value proposition to industry and society.

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

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http://finaid.ucf.edu
Fellowship Information

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

Grad Fellowships
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu

Hospitality and Tourism Technologies Graduate Certificate

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Program Website
http://www.hospitality.ucf.edu/

Program Handbook
Hospitality and Tourism Handbook

Program Contact Information

David Kwun PhD
Associate Professor, MS Programs Coordinator
David.Kwun@ucf.edu
Telephone: 407-903-8190
RCHM 277

Kathy Henry MPA
Assistant Director, Graduate Programs Academic Adviser
Kathy.Henry@ucf.edu
Telephone: 407-903-8024
RCHM 102C

Is this program available 100% online?
Yes

UCF Online

Please note: Hospitality and Tourism Technologies Graduate Certificate, although not all elective options or program prerequisites may be offered online. Newly admitted students choosing to complete this program exclusively via UCF online classes may enroll with a reduction in campus-based fees. See http://ucf.edu/online for more information.

International students (F or J visa) are required to enroll in a full-time course load of 9 credit hours during the fall and spring semesters. Only 3 of the 9 credit hours may be taken in a completely online format. For a detailed listing of enrollment requirements for international students, please visit http://global.ucf.edu/. If you have questions, please consult UCF Global at (407) 823-2337.

UCF is not authorized to provide online courses or instruction to students in some states. Refer to State Restrictions for current information.

Program Description

The Graduate Certificate in Hospitality and Tourism Technologies provides knowledge and information that facilitates the effective use of existing and emerging technologies in the marketing and management of hospitality and tourism products, services, experiences and electronic channels of distribution. The certificate covers the development, use, and future of hospitality and tourism technologies, the critical role played by social media as a strategy for differentiation, business development and new product/experience development, and the major perspectives and concepts associated with digital marketing and big data management.

Students learn to synthesize theory and application at the graduate level in order to produce the knowledge base necessary to fully utilize available technological and social media techniques and strategies in the hospitality and tourism industries. Students successfully completing this certificate are likely to be employed in any area of hospitality and tourism that incorporates online booking and reservation systems, e-intermediaries, online travel agencies, digital marketing agencies, social media organizations, destination marketing, hospitality marketing etc.
Application Requirements

Admission is open to those with a bachelor's degree from a regionally accredited institution. An application to the graduate certificate program and official transcripts must be submitted. Applicants must apply online. All requested materials must be submitted by the established deadline.

Materials received after the established deadline may not be considered. Admission to this certificate is competitive; applicants meeting the minimum application requirements are not guaranteed admission to the program.

In addition to the above application requirements, all applicants to this certificate program will be required to submit:

- One official transcript (in a sealed envelope) from each college/university attended.
- Goal statement (this is your opportunity to outline in 500 words why you wish to join the program, what you think you will contribute to the program, and how you feel the program will enhance you both personally and professionally)
- Résumé.
- The GRE/GMAT is not required, however, the Admissions Committee may ask for the GRE/GMAT to strengthen a candidate's application package.
- Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

These documents must be attached to the application. The goal statement should address the applicant's interest in pursuing the certificate program and fully discuss any experience that he or she has had in the field. A minimum of 2 years of full-time post-undergraduate work experience is required for admission.

Graduate Application Deadlines

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<th>Hospitality and Tourism Technologies Graduate Certificate</th>
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<th>Fall</th>
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<th>Summer</th>
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Application Deadlines Notes

*Applicants who plan to enroll full time in a degree program and who wish to be considered for university fellowships or assistantships should apply by the Fall Priority date.

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gradadmissions@ucf.edu
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Mailing Address

UCF College of Graduate Studies
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PO Box 160112
Orlando, FL 32816-0112

Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

2021-2022 Graduate Catalog
Degree Requirements

Required Courses
9 Total Credits

- Complete all of the following
  - Complete the following:
    - HMG6446 - Hospitality/Tourism Information Technology (3)
    - HMG6556 - Digital Marketing and Big Data Management for Hospitality and Tourism (3)
    - HMG6565 - Social Media in Hospitality and Tourism (3)
  - Although HMG 6446 - Hospitality/Tourism Information Technology may serve as a prerequisite for the two remaining courses that comprise the certificate, the order of courses taken is at the discretion of the Graduate Programs' Director and will be determined by the students' previous professional and academic experience. A number of sections of each course are available throughout the year with students able to commence in the Fall, Spring or Summer semester. One course, and sometimes more, are offered each term.

Grand Total Credits: 9

Financial Information

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finaid@ucf.edu
http://finaid.ucf.edu

Hospitality Management, PhD

College
Rosen College of Hospitality Management

Department
Rosen College of Hospitality Management Dean's Office

Program Website
http://www.hospitality.ucf.edu/

Program Handbook
Hospitality Management PhD Handbook

Program Contact Information

Murat Hancer PhD
Professor, PhD Program Coordinator
Murat.Hancer@ucf.edu
Telephone: 407-903-8043
RCHM 232

Kathy Henry MPA
Assistant Director, Graduate Programs Academic Advisor
Kathy.Henry@ucf.edu
Telephone: 407-903-8024
RCHM 102C

Is this program available 100% online?
No

Program Description
The PhD in Hospitality Management prepares individuals for teaching and research-based careers in academia or as practitioner researchers and field consultants in hospitality and tourism enterprises.
Program Prerequisites

Applicants to this program must have an earned Masters Degree. The total credit hours to complete this program are beyond the masters.

Application Requirements

For information on general UCF graduate admissions requirements that apply to all prospective students, please visit the Admissions section of the Graduate Catalog. Applicants must apply online. All requested materials must be submitted by the established deadline.

In addition to the general UCF graduate application requirements, applicants to this program must provide:

- One official transcript (in a sealed envelope) from each college/university attended.
- A masters degree in a closely related field.
- Official, competitive GRE or GMAT score taken within the last five years.
- Three letters of recommendation.
- Goal statement (This is your opportunity to outline in 500 words why you wish to come to the program, what you think you will contribute to the program and how you feel the program will enhance you both personally and professionally).
- Résumé

Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only.

Graduate Application Deadlines

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Application Deadlines Notes

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Institution Codes

GRE: 5233
GMAT: RZT-HT-58
TOEFL: 5233
ETS PPI: 5233

Degree Requirements

Required Courses
16 Total Credits

Core Courses
- Complete all of the following:
  - Complete the following:
    - HMG7587 - Foundations in Hospitality and Tourism Research (3)
    - HMG7589 - Advanced Research Methods in Hospitality and Tourism (3)
    - HMG7588 - Research Seminar in Hospitality and Tourism (1)
    - PAF7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis (3)
    - HMG7295 - Theories in Hospitality and Tourism (3)
  - Complete at least 1 of the following:
    - PAF7802 - Advanced Research Methodology for Public Affairs (3)
    - HMG6586 - Research Methods in Hospitality and Tourism (3)
Specialization
27 Total Credits

- Complete all of the following
  Strategies and Tactics
  - Complete at least 2 of the following:
    - HMG7258 - Strategies and Tactics: Lodging (3)
    - HMG7546 - Strategies and Tactics: Guest Service Management (3)
    - HMG7715 - Strategies and Tactics: Travel and Tourism (3)
    - HMG7876 - Strategies and Tactics: Foodservice (3)

Research Electives

- Earn at least 9 credits from the following:
  - HMG6918 - Directed Research (1 - 99)
  - PAF7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods (3)
  - PAF7820 - Qualitative Methods for Public Affairs (3)
  - EDF7463 - Analysis of Survey, Record, and Other Qualitative Data (3)
  - EDF7406 - Multivariate Statistics in Education (3)

6000/7000 Level Electives

- Earn at least 12 credits from the following:
  - FSS6365 - Management of Food Service Operations (3)
  - HMG6227 - Advanced Training and Development in the Hospitality Industry (3)
  - HMG6228 - Critical Issues in Hospitality Human Resources (3)
  - HMG6245 - Managing Hospitality and Guest Services Organizations (3)
  - HMG6251 - The Management of Lodging Operations (3)
  - HMG6267 - Case Studies in Restaurant Management (3)
  - HMG6296 - Hospitality/Tourism Strategic Issues (3)
  - HMG6347 - Contemporary Issues in the Resort Industry (3)
  - HMG6446 - Hospitality/Tourism Information Technology (3)
  - HMG6466 - Applied Revenue Management Techniques in Hospitality (3)
  - HMG6476 - Feasibility Studies for the Hospitality/Tourism Enterprises (3)
  - HMG6477 - Financial Analysis of Hospitality Enterprises (3)
  - HMG6528 - Convention and Conference Sales and Services (3)
  - HMG6529 - Contemporary Issues in Resort Sales Management (3)
  - HMG6533 - Hospitality/Tourism Industry Brand Management (3)
  - HMG6555 - Digital Marketing and Big Data Management for Hospitality and Tourism (3)
  - HMG6565 - Social Media in Hospitality and Tourism (3)
  - HMG6566 - Principles of Destination Marketing and Management (3)
  - HMG6585 - Data Analysis in Hospitality and Tourism Research (3)
  - HMG6596 - Strategic Marketing in Hospitality and Tourism (3)
  - HMG6710 - International Tourism Management (3)
  - HMG6738 - Tourism Industry Analysis (3)
  - HMG6756 - Mega-Events (3)
  - HMG6797 - Event Administration (3)

  - At least 6 credit hours should be from HMG 7XXX level courses. Course selection should be based on the student's area of interest in consultation with the major adviser and approved by the PhD Program Coordinator.

Dissertation
15 Total Credits

- Complete all of the following
  - Earn at least 15 credits from the following:
    - HMG7980 - Dissertation (1 - 99)

  - Doctoral students must present a prospectus for the dissertation to the doctoral adviser, prepare a proposal and present it to the dissertation committee, and defend the final research submission with the dissertation committee.

Grand Total Credits: 58

Financial Information

Graduate students may receive financial assistance through fellowships, assistantships, tuition support, or loans. For more information, see the College of Graduate Studies Funding website, which describes the types of financial assistance available at UCF and provides general guidance in planning your graduate finances. The Financial Information section of the Graduate Catalog is another key resource.

UCF Student Financial Assistance
Millican Hall 120
Telephone: 407-823-2827
Appointment Line: 407-823-5285
Fax: 407-823-5241
finaid@ucf.edu
http://finaid.ucf.edu
**Fellowship Information**

Fellowships are awarded based on academic merit to highly qualified students. They are paid to students through the Office of Student Financial Assistance, based on instructions provided by the College of Graduate Studies. Fellowships are given to support a student's graduate study and do not have a work obligation. For more information, see UCF Graduate Fellowships, which includes descriptions of university fellowships and what you should do to be considered for a fellowship.

**Grad Fellowships**
Telephone: 407-823-0127
gradfellowship@ucf.edu
https://funding.graduate.ucf.edu
Courses

ACG - Accounting General

ACG5917 - Directed Research
Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

ACG5937 - Special Topics
Course Title
Special Topics

Credits Hours
3

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

ACG6185 - Financial Statement Analysis
Course Title
Financial Statement Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and completion of all business and accounting foundation core courses.

Course Description
Analysis of business and financial information to develop financial analysis abilities and enhance understanding of the relationships between business strategies, processes, and financial information.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Spring
Fall
ACG6255 - International and Multinational Accounting

**Course Title**

International and Multinational Accounting

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Graduate standing and completion of all business and accounting foundation core courses or equivalent.

**Course Description**

An examination of the environmental factors affecting international accounting concepts and standards. Cross-country differences in accounting treatments are compared.

**College**

College of Business Administration

**Department**

Kenneth G Dixon School of Accounting

**Terms of Offering**

Occasional

ACG6305 - Advanced Managerial Accounting

**Course Title**

Advanced Managerial Accounting

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Graduate standing and completion of all business and accounting foundation core courses.

**Course Description**

Advanced and current techniques for generation and use of accounting information in managerial decision-making.

**College**

College of Business Administration

**Department**

Kenneth G Dixon School of Accounting

**Terms of Offering**

Occasional
**ACG6415 - Advanced Accounting Information Systems**

**Course Title**
Advanced Accounting Information Systems

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing and completion of all business and accounting foundation core courses. Evaluation of the overall risk to critical accounting and business processes posed by information technology.

**College**
College of Business Administration

**Department**
Kenneth G Dixon School of Accounting

**Terms of Offering**
Occasional

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**ACG6425 - Managerial Accounting Analysis**

**Course Title**
Managerial Accounting Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CBA Master's Program of Study Foundation Core (not open to Accounting majors).

**Course Description**
Accounting as an information measurement system for internal planning and control.

**College**
College of Business Administration

**Department**
Kenneth G Dixon School of Accounting

**Terms of Offering**
Spring
Fall
ACG6519 - Governmental and Nonprofit Accounting

Course Title
Governmental and Nonprofit Accounting

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and completion of all business and accounting foundation core courses.

Course Description
Examination of current issues and advanced topics in governmental and nonprofit accounting with emphasis on public policy issues and governmental budgeting.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional

ACG6636 - Advanced Auditing

Course Title
Advanced Auditing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and completion of all business and accounting foundation core courses.

Course Description
Advanced topics on independent, external auditing including internal control, evidence, reporting, and operational auditing.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional
ACG6675 - Operational Auditing

Course Title
Operational Auditing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and completion of all business and accounting foundation core courses.

Course Description
In depth study of the standards, principles, practices, and procedures followed in the internal audit function.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional

ACG6685 - Fraud Auditing

Course Title
Fraud Auditing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and completion of all business and accounting foundation core courses.

Course Description
Theory and techniques relating to fraud auditing and fraud examination.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional
ACG6805 - Accounting Theory

Course Title
Accounting Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and completion of all business and accounting foundation core courses.

Course Description
An examination of the evolution of contemporary accounting theory with emphasis on current and future developments.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional

ACG6835 - Ethics and Professionalism in Accounting and Auditing

Course Title
Ethics and Professionalism in Accounting and Auditing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing and completion of all business and accounting foundation core courses. This course focuses on why and how theories of the professions and theories of individual ethical decision-making are applicable to the practice of accounting.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional
ACG6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Business Administration
Department
Kenneth G Dixon School of Accounting

ACG6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Kenneth G Dixon School of Accounting

ACG6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Business Administration
Department
Kenneth G Dixon School of Accounting
ACG7157 - Seminar in Archival Research in Accounting

Course Title
Seminar in Archival Research in Accounting

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Approval of instructor and PhD program coordinator.

Course Description
Extensive coverage of archival literature dealing with auditing, financial accounting, accounting regulation, and related accounting research.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional

ACG7390 - Seminar in Managerial Accounting Research

Course Title
Seminar in Managerial Accounting Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Instructor and PhD program coordinator consent.

Course Description
This course provides an in-depth understanding of the management accounting literature and the knowledge and skills needed to undertake scholarly research in this area.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional
ACG7399 - Seminar in Behavioral Accounting Research

Course Title
Seminar in Behavioral Accounting Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Complete all of the following
  - Complete the following:
    - ACG7157 - Seminar in Archival Research in Accounting (3)
    - Admission to doctoral program and C.I.

Course Description
Extensive study of the theoretical aspects and empirical literature related to accounting-based judgement/decision processes and the behavioral implications of accounting.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional

ACG7826 - Seminar in the Social and Organizational Context of Accounting

Course Title
Seminar in the Social and Organizational Context of Accounting

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Instructor and PhD program coordinator consent.

Course Description
This course provides the student with an appreciation for the body of accounting knowledge that investigates accounting as a practice carried out within social and organizational contexts.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional
ACG7837 - Foundations in Behavioral Accounting Research

Course Title
Foundations in Behavioral Accounting Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I. and PhD Program Coordinator Consent.

Course Description
Foundation in behavioral theory development and research design applicable to studying the individual and organizational aspects of accounting.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Odd Fall

ACG7885 - Research Foundations in Accounting

Course Title
Research Foundations in Accounting

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Instructor and PhD program coordinator consent.

Course Description
This course provides doctoral students with an intellectual foundation in research and research methods that are applicable in the study of accounting.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional
ACG7887 - Accounting Research Forum

**Course Title**
Accounting Research Forum

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to doctoral program.

**Course Description**
Research and pedagogical issues in accounting, including research presentations by faculty, doctoral students, and invited scholars. May be taken for 4 hours credit.

**College**
College of Business Administration

**Department**
Kenneth G Dixon School of Accounting

**Terms of Offering**
Spring
Fall

ACG7888 - Seminar in Critical Accounting and AIS

**Course Title**
Seminar in Critical Accounting and AIS

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Instructor and PhD program coordinator consent.

**Course Description**
This course provides an in-depth understanding of the critical accounting and AIS literature and the knowledge and skills necessary to undertake scholarly research in the area.

**College**
College of Business Administration

**Department**
Kenneth G Dixon School of Accounting

**Terms of Offering**
Occasional
ACG7915 - Directed Research in Accounting

**Course Title**
Directed Research in Accounting

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- GEB 7910 and C.I.

**Course Description**
Advanced study in specialized areas of accounting research. Study designed to lead toward publishable research or student's dissertation. By definition, topical areas will vary.

**College**
College of Business Administration

**Department**
Kenneth G Dixon School of Accounting

**Terms of Offering**
Occasional

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ACG7917 - Advanced Research Methods in Accounting and Accounting Information Systems Research

**Course Title**
Advanced Research Methods in Accounting and Accounting Information Systems Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Approval of instructor and PhD program coordinator.

**Course Description**
Advanced study in specialized areas of accounting and AIS research. By definition, topical areas will vary.

**College**
College of Business Administration

**Department**
Kenneth G Dixon School of Accounting

**Terms of Offering**
Occasional
ACG7919 - Research

**Course Title**
Research

**Credits Hours**
1 - 99

**College**
College of Business Administration

**Department**
Kenneth G Dixon School of Accounting

ACG7939 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Business Administration

**Department**
Kenneth G Dixon School of Accounting

ADE - Adult Education

ADE5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

ADE5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education
ADE6678 - The Socio-Historical Context of Adult Education

Course Title

The Socio-Historical Context of Adult Education

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- Graduate standing or C.I.

Course Description

An overview of adult education examining the historical and philosophical roots, the current social context and the multiple disciplinary perspectives that inform the field.

College

College of Community Innovation and Education

Department

Department of Educational Leadership & Higher Education

Terms of Offering

Odd Fall

ADV - Advertising

ADV5917 - Directed Research

Course Title

Directed Research

Credits Hours

1 - 99

College

College of Sciences

Department

Nicholson School of Communication and Media

ADV5937 - Special Topics

Course Title

Special Topics

Credits Hours

3

College

College of Sciences

Department

Nicholson School of Communication and Media
ADV6209 - Advertising and Society

**Course Title**
Advertising and Society

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
A study of the social and ethical impact of advertising focusing on the development and presentation of advertising messages.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Occasional

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**AFA - African American Studies**

**AFA5917 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of History

**AFA5937 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Arts and Humanities

**Department**
Department of History

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**AFH - African History**
AFH5259 - Colloquium in African History

Course Title
Colloquium in African History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Readings on selected topics in African History. May be used in the degree program a maximum of 3 times.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Odd Fall

AFH5806 - The Historiography of Slavery in Africa

Course Title
The Historiography of Slavery in Africa

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or senior standing or C.I.

Course Description
Course covers the central issues and controversies in the historiography of slavery in Africa.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional
AFH5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of History

AFH5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of History

AFH6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of History

AMH - American History
AMH5077 - Colloquium in Twentieth Century Tourism

Course Title
Colloquium in Twentieth Century Tourism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Examines the historiography and major themes in the history of tourism scholarship.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

AMH5116 - Colloquium in Early American History

Course Title
Colloquium in Early American History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Graduate standing or senior standing or C.I.

Course Description
Reading and discussion of the literature on selected topics in Early American history. May be used in the degree program a maximum of 3 times.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional
AMH5169 - Colloquium in the American Early Republic

**Course Title**
Colloquium in the American Early Republic

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or senior standing or C.I.

**Course Description**
Intensive reading and class discussion on selected topics of the Early American Republic.

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Occasional

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AMH5176 - Colloquium in Civil War and Reconstruction

**Course Title**
Colloquium in Civil War and Reconstruction

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or senior standing or C.I.

**Course Description**
Intensive reading and class discussion on selected topics of the Civil War and Reconstruction era.

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Occasional
AMH5296 - Colloquium in 20th Century U.S.

**Course Title**
Colloquium in 20th Century U.S.

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or senior standing or C.I.

**Course Description**
Reading and class discussion on selected topics in 20th-century U.S. May be used in the degree program a maximum of 4 times.

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Occasional

AMH5378 - History of Technology

**Course Title**
History of Technology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Introduces the historiography of technology's role in historical events, and society's role in shaping technology.

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Even Summer
AMH5391 - Colloquium in U.S. Cultural History

Course Title
Colloquium in U.S. Cultural History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or senior standing or C.I.

Course Description
Students will read and discuss a common or diverse body of the significant literature in the field.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

AMH5406 - Colloquium in American South

Course Title
Colloquium in American South

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or senior standing or C.I.

Course Description
Intensive reading and class discussion on selected topics of Southern history from colonial origins to the present.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional
AMH5636 - Colloquium in US Environmental History

Course Title
Colloquium in US Environmental History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Evolution of historical texts and methodologies for understanding nature-human interaction and how access to resources shaped human opportunity, from colonization to the present.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

AMH5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of History
AMH5925 - Colloquium in US Military History

Course Title
Colloquium in US Military History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Readings in selected topics in United States military history. May be used in the degree program a maximum of 3 times only when course content is different.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

AMH6346 - Seminar in the History of American Automobility

Course Title
Seminar in the History of American Automobility

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Readings and research in the development of American automobility.

College
College of Arts and Humanities

Department
Department of History
AMH6429 - Seminar in Community and Local History
Course Title
Seminar in Community and Local History
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing.
Course Description
This seminar will introduce students to historiography, methodology and first hand experience on conducting a community history based on local and church archives.
College
College of Arts and Humanities
Department
Department of History
Terms of Offering
Occasional

AMH6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of History

AMH6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of History
AMH6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of History

AMH6939 - Seminar in U.S. History

Course Title
Seminar in U.S. History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Research seminar on selected topics in U.S. history. May be repeated for credit only when course content is different.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

AML - American Literature

AML5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of English
AML5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of English

AML6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

AML6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

AML6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of English

ANG - Anthropology/Graduate
ANG5094 - Writing in Anthropology

Course Title
Writing in Anthropology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to the Ph.D. in Integrative Anthropological Sciences or MA in Anthropology programs, or C.I. Develop scholarly writing skills specific to anthropology in terms of engagement with literature, crafting of arguments, as well as the style of expression and quoting.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Fall

ANG5128 - Lithic Analysis: The Archaeology of Stone Tools

Course Title
Lithic Analysis: The Archaeology of Stone Tools

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Anthropology MA program, Integrative Anthropological Sciences PhD program, or C.I.

Course Description
Introduces the manufacturing and analysis of flaked stone tools. Students will work with both archaeological and experimental collections, and manufacture stone tools.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Odd Spring
ANG5165 - Archaeology of Pre-Columbian South America

**Course Title**
Archaeology of Pre-Columbian South America

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Anthropology M.A. program, Integrative Anthropological Sciences PhD program, or C.I.

**Course Description**
Examines South American archaeology over fifteen thousand years, including but going beyond the Andes. Provides context for anthropological research throughout South America.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Even Spring
Odd Spring

ANG5166 - Problems in Maya Studies

**Course Title**
Problems in Maya Studies

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Anthropology MA, Maya Studies GC, or C.I.

**Course Description**
In-depth study of current methodological, theoretical, and/or topical problems in Maya Studies.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Occasional
ANG5188 - Paleoethnobotany

Course Title
Paleoethnobotany

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Anthropology MA program or C.I. Knowledge and understanding of paleoethnobotany sufficient to understand, interpret, and evaluate plant data in archaeological, paleoecological, and contemporary research.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Odd Spring

ANG5191 - Mortuary Archaeology

Course Title
Mortuary Archaeology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology MA, Maya Studies GC, or C.I.

Course Description
Funerary customs and human remains; basic data collection, skeletal analysis, and comparative study of mortuary ritual-ancient and modern.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Occasional

2021-2022 Graduate Catalog
ANGS195C - A Pot for All Seasons: Archaeological Ceramic Analysis

Course Title
A Pot for All Seasons: Archaeological Ceramic Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
1.5

Prerequisites
- Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Course Description
Provides students with the skills, knowledge and ability to classify, analyze, and interpret ceramic artifacts commonly recovered from archaeological sites.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Fall

ANGS228 - Maya Iconography

Course Title
Maya Iconography

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology MA, Maya Studies GC, or C.I.

Course Description
Study and interpretation of ancient Maya iconography as reflected in art, artifacts, and constructed features.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Odd Spring
ANG5441 - Anthropology of Cities

Course Title
Anthropology of Cities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Course Description
An anthropological exploration of cities and their social systems in the past and present.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Spring

ANG5462 - Medical Anthropology

Course Title
Medical Anthropology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Course Description
Topics in ethnography of medical traditions and anthropological approaches to the study of health and disease.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Occasional
ANG5468 - Anthropology of the Body

Course Title
Anthropology of the Body

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Course Description
Critically examines the body from the perspective of cultural anthropology.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Spring

ANG5486 - Quantitative Research in Anthropology

Course Title
Quantitative Research in Anthropology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the MA in Anthropology program, admission to Integrative Anthropological Sciences PhD program, or C.I.

Course Description
Quantitative approaches to problems in anthropology, including multivariate systems, assessment of reliability, and approaches for small samples.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Fall
ANG5525C - Human Osteology

**Course Title**
Human Osteology

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission to the Anthropology M.A. program, Integrative Anthropological Sciences PhD or C.I.

**Course Description**
The human skeleton and the methodology and techniques involved in the anthropological assessment of skeleton remains.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Fall

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ANG5531 - Nutritional Anthropology

**Course Title**
Nutritional Anthropology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
The biological, social, cultural, psychological, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, evolutionary and ecological.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Even Fall
Odd Fall
ANGS738 - Advanced Medical Anthropology

Course Title
Advanced Medical Anthropology

Credits Hours
3

Prerequisites
- Admission to Anthropology MA, Maya Studies Graduate certificate, or C.I.

Course Description
Advanced topics in ethnography of medical traditions and anthropological approaches to the study of health and disease.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Occasional

ANGS742 - Problems in Forensic Anthropology

Course Title
Problems in Forensic Anthropology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Course Description
Current issues and topics in forensic anthropology.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Spring
ANG5822 - Maya Field Research
Course Title
Maya Field Research
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to Anthropology MA, Maya Studies GC, or C.I.
Course Description
Practical application of method and theory during primary infield research in the Maya area.
College
College of Sciences
Department
Department of Anthropology
Terms of Offering
Spring

ANG5852 - GIS Methods in Anthropology
Course Title
GIS Methods in Anthropology
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to Anthropology MA, Integrative Anthropological Sciences PhD or GIS certificate.
Course Description
Overview to Geographic Information Systems (GIS) methods from an anthropological perspective.
College
College of Sciences
Department
Department of Anthropology
Terms of Offering
Fall
ANG5853 - Advanced GIS Methods in Anthropology

Course Title
Advanced GIS Methods in Anthropology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ANG 5852 and admission to Anthropology MA program, GIS graduate certificate, or C.I.

Course Description
Advanced methods to Geographic Information Systems (GIS) from an anthropological perspective.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Spring

ANG5854 - Digital Anthropology

Course Title
Digital Anthropology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Anthropology M.A. program, Integrative Anthropological Sciences PhD, or C.I.

Course Description
Explores how anthropology applies digital technologies to exploring humanity's past, present, and future. Grounded by developing anthropologically based, transferable methods and skills.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Even Fall
Odd Fall
ANG5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Anthropology

ANG5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Anthropology

ANG5944 - Internship
Course Title
Internship
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Anthropology

2021-2022 Graduate Catalog
ANG5950 - Geospatial and Archaeological Field School at Kerkenes

Course Title
Geospatial and Archaeological Field School at Kerkenes

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Anthropology M.A. program, Integrative Anthropological Sciences PhD, GIS Graduate Certificate, or C.I.

Course Description
Provides hands-on experience using geospatial technologies and archaeological methodologies on an archaeological project through Study Abroad. Fulfills an elective requirement for GIS Graduate Certificate.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Even Summer
Odd Summer

ANG5951 - Geophysical Field School at Kerkenes

Course Title
Geophysical Field School at Kerkenes

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Provides hands-on experience using geophysical technologies on an archaeological project through Study Abroad. Fulfills an elective requirement for the GIS Graduate Certificate.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Even Summer
Odd Summer
ANG6002 - Proseminar in Anthropology

Course Title
Proseminar in Anthropology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology MA, Maya Studies GC, or C.I.

Course Description
Central concepts, theories, resources, and methods fundamental to cultural anthropology, human ecology, physical anthropology, and archaeology.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Occasional

ANG6003 - Ethics in Anthropology

Course Title
Ethics in Anthropology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I.

Course Description
Ethical issues and concepts practitioners of integrative anthropological sciences confront across various academic, research, and public domains.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Occasional
ANG6021 - Advanced Topics in Environmental Transformations

**Course Title**
Advanced Topics in Environmental Transformations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs, or C.I. Anthropological, archaeological, ecological, and geographical approaches to understanding human interactions with landscapes and environments through time.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Odd Spring

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ANG6076 - Remote Sensing Methods in Anthropology

**Course Title**
Remote Sensing Methods in Anthropology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ANT4852 and ANT4854 or ANG5852 and ANG5853 or ANG7075, or C.I.

**Course Description**
An introduction to remote sensing methods, applicable across a wide range disciplines, from an anthropological perspective. Fulfills an elective requirement for the GIS Graduate Certificate.

**College**
College of Sciences

**Department**
Department of Anthropology
ANG6110 - Archaeological Theory and Method

Course Title
Archaeological Theory and Method

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Course Description
History and current theory and methods used by archaeologists to interpret past behavior.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Fall

ANG6125C - Applied Materials Analysis in Anthropological Sciences

Course Title
Applied Materials Analysis in Anthropological Sciences

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Techniques used for analysis of biological and man-made materials, the interpretation of results produced, and their impact on the reconstruction of human biology and history.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Even Fall
ANG6144 - Contemporary Problems in the Study of Complex Societies

Course Title
Contemporary Problems in the Study of Complex Societies

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I. Examination of the processes that fostered the rise of complex societies, including the dynamics behind cultural evolution, societal expansion, and collapse.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Occasional

ANG6168 - The Ancient Maya

Course Title
The Ancient Maya

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology MA, Integrative Anthropological Sciences Phd, or C.I.

Course Description
Overview of the archaeology of the ancient Maya of Mexico, Belize, Guatemala, and upper Mexico.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Fall
ANG6181C - GIS Applications in Anthropology

**Course Title**
GIS Applications in Anthropology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission to Anthropology MA program, Maya Studies graduate certificate, or C.I.

**Course Description**
Application of geographic information systems methodology for the documentation and analysis of anthropological, archeological and forensic problems.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Spring

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ANG6184 - Advances in Archaeological Practice

**Course Title**
Advances in Archaeological Practice

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I. Topics concerning cultural resource management as a professional field within anthropology, and specifically, anthropological archaeology.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Occasional
ANG6189 - Integrative Isotopic Sciences

Course Title
Integrative Isotopic Sciences

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Anthropology M.A., Integrative Anthropological Sciences Phd, or C.I.

Course Description
Theoretical and methodological approaches to stable isotope analysis and its application in the interpretation of human migration, diet, disease, environment, and physiology.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Spring

ANG6324 - Contemporary Maya

Course Title
Contemporary Maya

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology M.A. program, Maya Studies graduate certificate, or C.I.

Course Description
Overview of the cultures and peoples comprising the contemporary Maya of Central America.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Even Fall
ANG6405 - Food Security and Sustainability

Course Title
Food Security and Sustainability

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I.

Course Description
Global concepts of food security and sustainability including an examination of the social, economic, and environmental dimensions of how humans produce and consume food.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Occasional

ANG6411 - Business Practices for the Anthropological Sciences

Course Title
Business Practices for the Anthropological Sciences

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I.

Course Description
Examination of the culture and philosophy of business management, introducing business concepts and practices within anthropological sciences.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Occasional
ANG6466 - Contemporary Problems in the Anthropology of Mental Health

Course Title
Contemporary Problems in the Anthropology of Mental Health

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I.

Course Description
The study of mental health and mental illness from the perspective of practitioners, researchers and psychological/psychiatric anthropologists.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Odd Fall

ANG6467 - Advanced Topics in Medical Anthropology

Course Title
Advanced Topics in Medical Anthropology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Admission to Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs, or C.I.

Course Description
Examination of advanced topics in the cultural construction of health and illness.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Even Spring
ANG6474 - Science, Technology, and the Transformation of Human Societies

**Course Title**
Science, Technology, and the Transformation of Human Societies

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Integrative Anthropological Sciences PhD, or C.I.

**Course Description**
Examines the ways in which scientific methods and technology are applied to social transformation within the integrative anthropological sciences.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Fall

ANG6498 - Advanced Qualitative Methods in Anthropology

**Course Title**
Advanced Qualitative Methods in Anthropology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
ANG 6801 and Admission to the Ph.D. in Integrative Anthropological Sciences Ph.D. program or C.I. Advanced qualitative methods including data collection and analysis, writing ethnographies, and research presentation.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Spring
ANG6520C - Advanced Human Osteology

Course Title
Advanced Human Osteology

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Course Description
Advanced seminar on methods and theory pertaining to the study of the human skeleton.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Occasional

Current Fee Per Student
$20.00

ANG6536 - Advances in Bioarchaeology

Course Title
Advances in Bioarchaeology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
ANG 6520C and Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I. Advanced bioarchaeological analysis of cultural and historical processes that affect human skeletal remains.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Odd Fall
ANG6587 - Seminar in Biological Anthropology

Course Title
Seminar in Biological Anthropology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology MA, Maya Studies GC, or C.I.

Course Description
Topics in biological anthropology including focus on human biological variation and adaptation.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Occasional

ANG6701 - Public and Applied Anthropology

Course Title
Public and Applied Anthropology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

Course Description
Explores anthropological approaches to important present-day cultural, political, economic, and environmental issues.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Fall
ANG6740C - Advanced Forensic Anthropology

**Course Title**
Advanced Forensic Anthropology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

**Course Description**
Advanced theory and laboratory methods in forensic anthropology, including forensic skeletal analysis and interpretation.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Occasional

**Current Fee Per Student**
$9.10

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ANG6801 - Ethnographic Research Methods

**Course Title**
Ethnographic Research Methods

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

**Course Description**
Ethnographic research techniques and praxis: data collection and analysis, writing ethnographies, and research presentation.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Fall
ANG6821 - Forensic Archeology Field Methods

Course Title
Forensic Archeology Field Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Anthropology MA, Maya Studies GC, or C.I.

Course Description
Application of archeological techniques to the search, recovery, excavation and documentation of modern human remains.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Occasional

Current Fee Per Student
$22.00

ANG6908 - Independent Study

Course Title
Independent Study

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Anthropology

ANG6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Anthropology
ANG6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Anthropology

ANG6930 - Seminar in Cultural Anthropology

**Course Title**
Seminar in Cultural Anthropology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Anthropology MA, Integrative Anthropological Sciences PhD, or C.I.

**Course Description**
Theoretical foundations and contemporary issues in the study of living cultures.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Spring

ANG6931 - Science, Technology, and the Transformation of Human Societies

**Course Title**
Science, Technology, and the Transformation of Human Societies

**Credits Hours**
3

**Prerequisites**
- Admission to the Ph.D. in Integrative Anthropological Sciences or M.A. in Anthropology programs or C.I.

**Course Description**
Scientific methods and technology as they affect social transformation within the integrative anthropological sciences.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Fall
ANG6938 - Special Topics
Course Title
Special Topics
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Anthropology

ANG6946 - Internship
Course Title
Internship
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Anthropology

ANG6958 - Study Abroad
Course Title
Study Abroad
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Anthropology

ANG6971 - Treatise(Thesis or Research Report)
Course Title
Treatise(Thesis or Research Report)
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Anthropology

2021-2022 Graduate Catalog
ANG6973 - Thesis-Specialist

Course Title
Thesis-Specialist

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Anthropology

ANG7075 - Advanced Anthropological Topics in Geospatial Analysis

Course Title
Advanced Anthropological Topics in Geospatial Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ANG 5852 and Admission to the Ph.D. in Integrative Anthropological Sciences program or C.I.

Course Description
Advanced application of geographic information systems methodology for the documentation and analysis of anthropological, archaeological, and forensic problems.

College
College of Sciences

Department
Department of Anthropology

Terms of Offering
Spring
ANG7496 - Advanced Quantitative Methods in Anthropology

**Course Title**
Advanced Quantitative Methods in Anthropology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
ANG 5486 and Admission to the Ph.D. in Integrative Anthropological Sciences program or C.I. Advanced quantitative methods in anthropology, including multivariate systems, assessment of reliability, and approaches for small samples.

**College**
College of Sciences

**Department**
Department of Anthropology

**Terms of Offering**
Spring

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**ANT - Anthropology**

**ANT5937 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Anthropology

**ANT6909 - Research Report**

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Anthropology
ANT6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Anthropology

ANT6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Anthropology

ANT6949 - Cooperative Education in Anthropology

Course Title
Cooperative Education in Anthropology

Credits Hours
0 - 99

College
College of Sciences

Department
Department of Anthropology

APK - Applied Kinesiology
APK5907 - Independent Study

**Course Title**
Independent Study

**Credits Hours**
0 - 99

**Lab/Studio/Field Work Hours**
0-99

**Prerequisites**
- C.I.

**Course Description**
Independent Study.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Occasional

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APK5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
0 - 99

**Lab/Studio/Field Work Hours**
0-99

**Prerequisites**
- C.I.

**Course Description**
Directed Research.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Occasional
APK5957 - Study Abroad

Course Title
Study Abroad

Credits Hours
0 - 99

Lab/Studio/Field Work Hours
0-99

Prerequisites
♦ C.I.

Course Description
Study Abroad.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Occasional

APK6703 - Statistical Methods in Kinesiology

Course Title
Statistical Methods in Kinesiology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
♦ Admission to the Kinesiology MS or Education PhD Exercise Physiology track or C.I.

Course Description
Overview of the statistical evaluation in kinesiology; analysis of data, descriptive and inferential statistics, interpretation of results.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Occasional
APK6713 - Research Methods in Kinesiology

**Course Title**
Research Methods in Kinesiology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Kinesiology MS program or Education PhD-Exercise Physiology track or C.I.

**Course Description**
Examination of scientific inquiry and the research-based development of knowledge within the discipline of kinesiology.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Fall

APK6908 - Independent Study

**Course Title**
Independent Study

**Credits Hours**
0 - 99

**Lab/Studio/Field Work Hours**
0-99

**Prerequisites**
- C.I.

**Course Description**
Independent Study.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Occasional
APK6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
0 - 99

**Lab/Studio/Field Work Hours**
0-99

**Prerequisites**
- C.I.

**Course Description**
Directed Research.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Occasional

APK6946 - Practicum, Clinical Practice

**Course Title**
Practicum, Clinical Practice

**Credits Hours**
0 - 99

**Lab/Studio/Field Work Hours**
0-99

**Prerequisites**
- C.I.

**Course Description**
Kinesiology Practicum or Clinical Practice.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Occasional
APK6958 - Study Abroad

**Course Title**
Study Abroad

**Credits Hours**
0 - 99

**Lab/Studio/Field Work Hours**
0-99

**Prerequisites**
- C.I.

**Course Description**
Study Abroad.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Occasional

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APK6971 - Thesis

**Course Title**
Thesis

**Credits Hours**
0 - 99

**Lab/Studio/Field Work Hours**
0-99

**Prerequisites**
- C.I.

**Course Description**
Thesis

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Occasional
APK7139 - Exercise Biochemistry Techniques

Course Title

Exercise Biochemistry Techniques

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- Admission to M.S. in Sport and Exercise Science--Applied Exercise Physiology track or the Ph.D. in Education--Exercise Physiology track.

Course Description

A course in laboratory instrumentation and methodologies for determining the composition of biological samples. Focuses on application and interpretation of methodologies.

College

College of Health Professions and Sciences

Department

School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering

Occasional

APK7919 - Doctoral Research

Course Title

Doctoral Research

Credits Hours

0 - 99

Lab/Studio/Field Work Hours

0-99

Prerequisites

- C.I.

Course Description

Doctoral Research.

College

College of Health Professions and Sciences

Department

School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering

Occasional
APK7980 - Dissertation

Course Title
Dissertation

Credits Hours
0 - 99

Lab/Studio/Field Work Hours
0-99

Prerequisites
- Doctoral Candidacy and C.I.

Course Description
Dissertation.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Occasional

APK7981 - Dissertation Proposal Preparation

Course Title
Dissertation Proposal Preparation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Kinesiology PhD program and C.I.

Course Description
Theoretical and practical development of dissertation project(s) and preparation for dissertation proposal prior to entering candidacy.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Summer

ARA - Arabic
**ARA5917 - Directed Research**  
**Course Title**  
Directed Research  
**Credits Hours**  
1 - 99  
**College**  
College of Arts and Humanities  
**Department**  
Department of Modern Languages and Literatures

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**ARA5937 - Special Topics**  
**Course Title**  
Special Topics  
**Credits Hours**  
3  
**College**  
College of Arts and Humanities  
**Department**  
Department of Modern Languages and Literatures

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**ARE - Art Education**

**ARE5251 - Art for Exceptionalities**  
**Course Title**  
Art for Exceptionalities  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
1  
**Course Description**  
Concepts, principles, and methods of integrating art processes into the education of the physically, emotionally, and mentally handicapped.  
**College**  
College of Community Innovation and Education  
**Department**  
School of Teacher Education  
**Terms of Offering**  
Occasional
ARE5255 - Arts in Recreation

Course Title
Art activities and experiences appropriate for use in playground, leisure services, occupational orientation and other recreational areas.

College
College of Community Innovation and Education

Department
School of Teacher Education

ARE5359 - Teaching Art K-12

Course Title
Teaching Art K-12

Course Description
Transition from university art practices to public school teaching of art. Organize, design, and analyze art learning for students K-12.

College
College of Community Innovation and Education

Department
School of Teacher Education

Prerequisites
- Admission to MA in Art Education, graduate standing or C.I.
ARE5454 - Studio Experiences in Art Education
Course Title
Studio Experiences in Art Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate admission or C.I.

Course Description
Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
Spring

Current Fee Per Student
$10.00

ARE5917 - Directed Research
Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

ARE5937 - Special Topics
Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
ARE6195 - Teaching Art Appreciation with Interdisciplinary Strategies

Course Title
Teaching Art Appreciation with Interdisciplinary Strategies

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- Graduate status and public school teaching experience.

Course Description
Focuses on the examination of art appreciation examples and concepts toward planning curriculum (interdisciplinary for the study of art history, criticism, and aesthetics).

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall

Current Fee Per Student
$5.00

ARE6450 - K-12 Instructional Materials

Course Title
K-12 Instructional Materials

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
A historical examination of art education curriculum along with developing learning experiences and visual resources (slides, transparencies, technology) from art works, and documentation.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Occasional
ARE6666 - Arts Advocacy

**Course Title**

Arts Advocacy

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

1

**Course Description**

Graduate Standing or C.I. The study and development of plans to produce arts advocacy programs for the public school system.

**College**

College of Community Innovation and Education

**Department**

School of Teacher Education

**Terms of Offering**

Occasional

**Current Fee Per Student**

$5.00

ARE6747 - Assessment Seminar in Art Education

**Course Title**

Assessment Seminar in Art Education

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Graduate standing or C.I.

**Course Description**

Examines the nature of past and present assessment research in art education, various methods of conducting this research, and how it can translate into application and contribute to the knowledge base in the field.

**College**

College of Community Innovation and Education

**Department**

School of Teacher Education

**Terms of Offering**

Odd Fall
Even Spring
ARE6748 - Advanced Research Seminar in Art Education

Course Title
Advanced Research Seminar in Art Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Examines the nature of past and present research in art education, various methods of conducting art education research, and how research can translate into practical classroom application. May be used in the program a maximum of 2 times only when course content is different. May be used in the degree program a maximum of 2 times only when course content is different.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Odd Fall
Odd Spring

ARE6905 - Research Trends in Art Education

Course Title
Research Trends in Art Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
This course will further prepare art education graduate students to identify and review landmark research and conduct relevant art education research. May be repeated for credit.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
ARE6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

ARE6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

ARE6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
School of Teacher Education

ARH - Art History
ARH5897 - Advanced Seminar in Art History

**Course Title**
Advanced Seminar in Art History

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ARH 2050 and ARH 2051 or C.I.

**Course Description**
Research methods on various topics including: major artist, monument, cultural period or theme.

**College**
College of Arts and Humanities

**Department**
School of Visual Arts and Design

**Terms of Offering**
Occasional

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ARH5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
School of Visual Arts and Design
ARH5933 - Seminar in African & African-American Arts

Course Title
Seminar in African & African-American Arts

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Traces African American history through visual and public art and explores how race relations in the United States were reflected in artistic forms.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

ARH5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
School of Visual Arts and Design

ARH6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
School of Visual Arts and Design
ARH6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
School of Visual Arts and Design

ARH6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
School of Visual Arts and Design

ART - Art

ART5280 - Serial Content
Course Title
Serial Content
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to Emerging Media MFA or Digital Media M.A., Graduate Standing, or C.I.
Course Description
Sequential design, production methods and materials in visual arts.
College
College of Arts and Humanities
Department
School of Visual Arts and Design
Terms of Offering
Occasional
Current Fee Per Student
$45.00
ART5284 - Design Theory and Methods
Course Title
Design Theory and Methods
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to Emerging Media MFA or C.I.
Course Description
Introduction to semiotic theory, communication theory, perceptual codes, human factors and visual rhetoric.
College
College of Arts and Humanities
Department
School of Visual Arts and Design
Terms of Offering
Occasional
Current Fee Per Student
$45.00

ART5390C - Advanced Drawing
Course Title
Advanced Drawing
Credits Hours
3
Lab/Studio/Field Work Hours
4
Prerequisites
- Graduate Standing or C.I.
Course Description
Students are expected to develop an individual series of works that demonstrate advanced drawing concepts and techniques.
College
College of Arts and Humanities
Department
School of Visual Arts and Design
Terms of Offering
Occasional
ART5410C - Advanced Printmaking

Course Title
Advanced Printmaking

Credits Hours
3

Lab/Studio/Field Work Hours
4

Prerequisites
- Admission to Emerging Media MFA, Studio Art track.

Course Description
Advanced problems in printmaking, including graduate level production, presentation, and evaluation criteria.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring
Fall

ART5585C - Advanced Painting

Course Title
Advanced Painting

Credits Hours
3

Lab/Studio/Field Work Hours
4

Prerequisites
- Admission to Emerging Media MFA, Studio Art track.

Course Description
Advanced problems in sculpture, including graduate level production, research, presentation, and evaluation criteria.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring
Fall
ART5696 - Art, Design and Human Interactions

Course Title
Art, Design and Human Interactions

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Emerging Media MFA or C.I.

Course Description
Exploration and design of interface interactions systems and technologies in contemporary society and culture including place making, way finding, electronic interface design, and publication design.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Occasional

ART5698 - Concourse I

Course Title
Concourse I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ART 5910 and ART 5280 and ART 5694, or C.I.

Course Description
Digital reproduction of studio works.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Fall

Current Fee Per Student
$45.00

2021-2022 Graduate Catalog
ART5745C - Advanced Sculpture

Course Title
Advanced Sculpture

Credits Hours
3

Lab/Studio/Field Work Hours
4

Prerequisites
- Admission to Emerging Media MFA, Studio Art Track.

Course Description
Advanced problems in sculpture, including graduate level production, research, presentation, and evaluation criteria.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring
Fall

ART5796C - Advanced Ceramics

Course Title
Advanced Ceramics

Credits Hours
3

Lab/Studio/Field Work Hours
4

Prerequisites
- Emerging Media: Studio Art & Design or C.I.

Course Description
Students respond to Chinese, Korean, Japanese, Middle Eastern, European, and American ceramics; clay properties, test tile manufacture, terminology, design, demonstrations, glazing, and firing procedures.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Occasional
ART5811 - The Professional Practice of Art

Course Title
The Professional Practice of Art

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Seminar class overview includes: digital documentation, inventory processing, accounting, art marketing, proposal writing, internships/residencies, art theory/criticism, and may include attending arts events, etc.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Fall

Current Fee Per Student
$45.00

ART5910 - Studio Concentration I

Course Title
Studio Concentration I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MFA. Course is the primary for production of work in studio.

Course Description
Students will meet periodically with faculty to discuss progress. Professor will meet with the whole class periodically in order to facilitate a group critique of work completed. May be used in the degree program a maximum of 3 times.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring
Fall

Current Fee Per Student
$45.00
ART5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
School of Visual Arts and Design

ART5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
School of Visual Arts and Design

ART5941 - Graduate Practicum I
Course Title
Graduate Practicum I
Credits Hours
1
Lab/Studio/Field Work Hours
0
Prerequisites
- Web Art I, graduate status, or C.I.
Course Description
Candidates with cross-disciplinary interests will discuss and analyze issues in digital art making via the internet. Students will use this information to develop projects in their specialization.
College
College of Arts and Humanities
Department
School of Visual Arts and Design
Terms of Offering
Occasional
ART6683 - Time Arts

Course Title
Time Arts

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Emerging Media MFA program or C.I.

Course Description
Explore established and experimental approaches to the visual representation of movement, space, and time.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Occasional

ART6687 - Research Concentration

Course Title
Research Concentration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ART 6911 or C.I.

Course Description
Advanced visual arts production course designed to assist students in conducting research, selecting committee members and refining a unique style or unified theme. Studio/critique model.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring
ART6689 - Research Concentration II

Course Title
Research Concentration II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ART 6687

Course Description
Continuation of Research Concentration I. Produce an interactive body of art work under a unified theme.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Occasional

ART6699 - Concourse II

Course Title
Concourse II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ART 5698. Continuation of Concourse I.

Course Description
Digital work used to create group web exhibit and interactive portfolio.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Occasional
ART6743C - Intermedia Design

Course Title
Intermedia Design

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to Emerging Media MFA or C.I.

Course Description
Enhancing material sense and repertoire regarding material selection, combination, and contextualization in static and dynamic projects. Design integration and enhanced structural awareness via media emphasized.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Occasional

Current Fee Per Student
$35.00

ART6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
School of Visual Arts and Design
ART6911C - Studio Concentration

Course Title
Studio Concentration

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to Emerging Media MFA or C.I.

Course Description
Over this repeatable four-course sequence, students will create individually driven studio work that evolves in materials, depth, scope, and content by building upon prior efforts.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring
Fall

Current Fee Per Student
$45.00

ART6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
School of Visual Arts and Design
ART6930 - Graduate Seminar  
**Course Title**  
Graduate Seminar  

**Credits Hours**  
1  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Admission to Emerging Media MFA, graduate standing or C.I  

**Course Description**  
Interactive discussions centered on art, aesthetics, culture, technology, and/or industry. May include select readings, writing assignments, instructor/guest lectures, and/or participating in arts events.  

**College**  
College of Arts and Humanities  

**Department**  
School of Visual Arts and Design  

**Terms of Offering**  
Spring  
Fall  

ART6938 - Special Topics  
**Course Title**  
Special Topics  

**Credits Hours**  
3  

**College**  
College of Arts and Humanities  

**Department**  
School of Visual Arts and Design
ART6942 - Graduate Practicum II
Course Title
Graduate Practicum II
Credits Hours
1
Lab/Studio/Field Work Hours
0
Prerequisites
- Web Art I, Graduate Practicum I.
Course Description
Candidates with cross-disciplinary interests will discuss and analyze digital art making via the internet. Students will apply principals from Practicum I and Internet projects.
College
College of Arts and Humanities
Department
School of Visual Arts and Design
Terms of Offering
Spring

ART6949 - Cooperative Education in Art
Course Title
Cooperative Education in Art
Credits Hours
0 - 99
College
College of Arts and Humanities
Department
School of Visual Arts and Design

ASH - Asian History
ASH5229 - History of the Middle East

Course Title
History of the Middle East

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Selected topics in the history of the modern Middle East. May be used in the degree program a maximum of 2 times only when course content is different.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

ASH5408 - Colloquium in Modern China

Course Title
Colloquium in Modern China

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate status or senior standing or C.I. Course explores works of scholarship in modern China including the rise of Communism, Chinese women and Sino-American relations.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional
ASH5485 - U.S. China Relations

Course Title
U.S. China Relations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
An in-depth study of the significant relations between China and the United States since the 18th century.

College
- College of Arts and Humanities

Department
- Department of History

Terms of Offering
- Even Fall

ASH5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
- College of Arts and Humanities

Department
- Department of History
ASH5925 - Colloquium in South Asian History

Course Title
Colloquium in South Asian History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Addresses key themes in South Asian history through selected readings. May be used in the degree program a maximum of 3 times only when course content is different.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

ASH5926 - Colloquium in East Asian History

Course Title
Colloquium in East Asian History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Colloquium in historiography of East Asia. Examines how historians have interpreted the history of China, Japan, and Korea, from the nineteenth century to the 1960s.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional
ASH5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of History

ASH6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of History

ASH6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of History
ASH6936 - Seminar in US-China Relations

Course Title
Seminar in US-China Relations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Historiographical interrogations of the intricate relations between the United States and China from 1900 to the present.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

ASH6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of History
ASH6939 - Seminar in Asian History

Course Title
Seminar in Asian History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ASH 5926, or ASH 5925, or C.I.

Course Description
Students learn the elements of historical research and writing that go into producing an original research paper in Asian history.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

AST - Astronomy

AST5038 - Astrobiology

Course Title
Astrobiology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, or C.I.

Course Description
Discusses the history of the Solar System, the origin of life on Earth, and how and where to search for life elsewhere.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Fall
AST5145 - Advanced Asteroids, Comets, and Meteorites

Course Title
Advanced Asteroids, Comets, and Meteorites

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
An advanced study of physical, chemical, mineralogical and orbital characteristics of Asteroids, Comets and Meteorites, with an emphasis on the origin of our solar system.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Odd Spring

AST5151 - Physics of Planetary Processes

Course Title
Physics of Planetary Processes

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing. Undergraduates may take the course with approval.

Course Description
Core course for planetary track students. Provides an overview of the physical basis of molecular spectroscopy, radiative transfer basics, thermodynamics and condensed matter physics from the perspective of planetary science.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Spring
AST5154 - Advanced Planetary Geophysics

Course Title
Advanced Planetary Geophysics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Physics MS or PhD or C.I.

Course Description
The physics of planetary evolution, planetary interiors, and planetary surface processes.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Even Fall

AST5263 - Advanced Observational Astronomy

Course Title
Advanced Observational Astronomy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in the Physics department or C.I.

Course Description
Experimental design and experimental techniques in astrophysics; spherical astronomy; physics of telescopes and of common astronomical detectors; error analysis.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Even Spring
AST5334 - Extrasolar Planets and Brown Dwarfs

**Course Title**
Extrasolar Planets and Brown Dwarfs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Physics M.S. or Physics Ph.D., or C.I.

**Course Description**
Substellar-mass objects, their formation, evolution, dynamics, detection, and environments.

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Odd Spring

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AST5765C - Advanced Astronomical Data Analysis

**Course Title**
Advanced Astronomical Data Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- MAC 2313, a 3000-level or higher course in astronomy or planetary science, ability to write simple computer programs, or C.I.

**Course Description**
Advanced astronomical data formation and acquisition, detector physics, measurement extraction, error analysis, modeling, computer programming, statistics, interpretation, and written and oral presentation of results.

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Fall
AST5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Physics

AST5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Physics

AST5949 - Cooperative Education
Course Title
Cooperative Education
Credits Hours
0 - 99
College
College of Sciences
Department
Department of Physics
AST6112 - Origin and Evolution of Planetary Systems

Course Title
Origin and Evolution of Planetary Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in Physics or C.I.

Course Description
Observations and properties of extrasolar planets and circumstellar disks through physics of disk evolution and planet formation and dynamical evolution of planetary systems.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Odd Spring

AST6156 - Current Topics in Planetary Sciences

Course Title
Current Topics in Planetary Sciences

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Planetary Sciences M.S./Ph.D. or C.I.

Course Description
Review and analyze current advances in planetary science, particularly science results from recent discoveries. The focus of the course will vary depending on current discoveries. May be used in the degree program a maximum of 3 times.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Occasional
AST6165 - Planetary Atmospheres

Course Title
Planetary Atmospheres

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- AST 5151 Physics of Planetary Processes, PHY 6246 Classical Mechanics, graduate status or senior standing, or C.I.

Course Description
This course examines the physical and chemical processes that govern the atmospheres of Earth and other planets.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Spring

AST6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Physics

AST6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Physics
AST7919 - Doctoral Research
Course Title
Doctoral Research
Credits Hours
1 - 99
Lab/Studio/Field Work Hours
Jan-99
Prerequisites
• Doctoral standing.
Course Description
Doctoral research. May be repeated for credit.
College
College of Sciences
Department
Department of Physics
Terms of Offering
Every Semester

AST7980 - Doctoral Dissertation
Course Title
Doctoral Dissertation
Credits Hours
1 - 99
Lab/Studio/Field Work Hours
Jan-99
Prerequisites
• Candidacy status.
Course Description
Doctoral dissertation. May be repeated for credit.
College
College of Sciences
Department
Department of Physics
Terms of Offering
Every Semester

ATR - Athletic Training
ATR5016 - Foundational Behaviors of Athletic Training Practice I

**Course Title**
Foundational Behaviors of Athletic Training Practice I

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to MAT degree program.

**Course Description**
The roles responsibilities of an athletic trainer in the evolving healthcare system; including professionalism, information fluency, and healthcare ethics, laws and regulations.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy – Kinesiology

**Terms of Offering**
Summer

ATR5017 - Foundational Behaviors of Athletic Training Practice II

**Course Title**
Foundational Behaviors of Athletic Training Practice II

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to MAT degree program.

**Course Description**
The roles responsibilities of an athletic trainer in the evolving healthcare system, including patient-centered care, collaborative care, and the influence of culture and other social determinants of health on healthcare.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy – Kinesiology

**Terms of Offering**
Fall
ATR5106C - Prevention of Injury and Illness in Athletic Training Practice

Course Title
Prevention of Injury and Illness in Athletic Training Practice

Credits Hours
2

Lab/Studio/Field Work Hours
1

Course Description
Physiological, psychological, and sociological aspects of health and wellness and the prevention of injury and illness; includes physical fitness, nutrition/hydration, flexibility and prophylactic taping/bracing.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Summer

Current Fee Per Student
$70.00

ATR5117C - Acute Care in Athletic Training Practice I

Course Title
Acute Care in Athletic Training Practice I

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to MAT degree program.

Course Description
Emergency preparedness and the evaluation and management of acute conditions and brain injuries.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Summer

Current Fee Per Student
$57.00
ATR5206C - Functional Human Anatomy for Athletic Trainers

Course Title
Functional Human Anatomy for Athletic Trainers

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
Admission to MAT degree program.

Course Description
Anatomical knowledge and clinical skills essential to the practice of athletic training; including knowledge of functional anatomy, manual muscle testing, goniometry, posture and gait analysis.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Summer

Current Fee Per Student
$4.00

ATR5217C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice II

Course Title
Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice II

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
ATR 5219C.

Course Description
A regional study of evaluation, diagnosis, and immediate treatment of lower extremity injuries.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Spring
ATR5219C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice I

**Course Title**
Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission to MAT degree program.

**Course Description**
A regional study of evaluation, diagnosis, and immediate treatment of head, neck, and spine injuries (including brain injuries).

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Fall

ATR5306C - Therapeutic Interventions in Athletic Training Practice I

**Course Title**
Therapeutic Interventions in Athletic Training Practice I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission to MAT degree program.

**Course Description**
Therapeutic interventions for head, neck, and spine musculoskeletal dysfunction (including brain injury).

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Fall

**Current Fee Per Student**
$5.00
ATR5307C - Therapeutic Interventions in Athletic Training Practice II

**Course Title**
Therapeutic Interventions in Athletic Training Practice II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- ATR 5306C.

**Course Description**
Therapeutic interventions for lower extremity musculoskeletal dysfunction.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Spring

**Current Fee Per Student**
$21.00

ATR5406C - General Medical Conditions in Athletic Training Practice I

**Course Title**
General Medical Conditions in Athletic Training Practice I

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Enrolled MAT degree program.

**Course Description**
Clinical skills essential to the practice of athletic training. Clinical skills stressed in this course include the evaluation, recognition, treatment, and referral of general medical conditions/illnesses.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Fall

**Current Fee Per Student**
$4.00
ATR5516 - Healthcare Administration in Athletic Training Practice I

Course Title
Healthcare Administration in Athletic Training Practice I

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MAT degree program.

Course Description
Policy, law, ethics, informatics and information management are explored with regard to the practice of athletic training.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Spring

ATR5617 - Athletic Training Research I

Course Title
Athletic Training Research I

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MAT degree program.

Course Description
Evidence-based practice as well as research methods, ethics and regulations in an effort to identify a meaningful question and concept for a capstone project.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Fall
ATR5815L - Practicum in Athletic Training I

**Course Title**
Practicum in Athletic Training I

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
10

**Prerequisites**
- ATR 5117C.

**Course Description**
Develop knowledge, skills, and attitudes by providing direct care of athletic injuries. Students are supervised by an assigned Preceptor.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Fall

ATR5825L - Practicum in Athletic Training II

**Course Title**
Practicum in Athletic Training II

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
10

**Prerequisites**
- ATR 5815L.

**Course Description**
Develop knowledge, skills, and attitudes by providing direct care of athletic injuries. Students are supervised by an assigned Preceptor.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Spring
ATR6118L - Acute Care in Athletic Training Practice II

**Course Title**
Acute Care in Athletic Training Practice II

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
1

**Course Description**
Review, update and practice emergency preparedness and the evaluation and management of acute conditions. This course will be entirely scenario based.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Spring

ATR6218C - Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice III

**Course Title**
Musculoskeletal Evaluation and Diagnosis in Athletic Training Practice III

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- ATR 5217C.

**Course Description**
A regional study of evaluation, diagnosis, and immediate treatment of upper extremity injuries.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Summer
ATR6308C - Therapeutic Interventions in Athletic Training Practice III
Course Title
Therapeutic Interventions in Athletic Training Practice III
Credits Hours
3
Lab/Studio/Field Work Hours
2
Prerequisites
◆ ATR 5307C.
Course Description
Therapeutic interventions for upper extremity musculoskeletal dysfunction.
College
College of Health Professions and Sciences
Department
School of Kinesiology and Physical Therapy - Kinesiology
Terms of Offering
Summer
Current Fee Per Student
$22.00

ATR6309C - Therapeutic Interventions in Athletic Training Practice IV
Course Title
Therapeutic Interventions in Athletic Training Practice IV
Credits Hours
3
Lab/Studio/Field Work Hours
2
Prerequisites
◆ ATR 6308C.
Corequisites
◆ ATR 6845L.
Course Description
Psychological aspects of rehabilitation and performance are explored. Rehabilitation protocols and evidence-based practices are employed in the context of actual patient care.
College
College of Health Professions and Sciences
Department
School of Kinesiology and Physical Therapy - Kinesiology
Terms of Offering
Fall
ATR6407C - General Medical Conditions in Athletic Training Practice II

Course Title
General Medical Conditions in Athletic Training Practice II

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- ATR 5406C. General Medical Conditions in Athletic Training Practice I.

Course Description
Clinical skills essential to the practice of athletic training. Clinical skills stressed in this course include the evaluation, recognition, treatment, and referral of general medical conditions/illnesses.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Spring

ATR6505 - Athletic Training Seminar

Course Title
Athletic Training Seminar

Credits Hours
1

Lab/Studio/Field Work Hours
0

Corequisites
- Athletic Training Practicum V (ATR 6XXXL).

Course Description
Prepare for the BOC examination, review the Standards of Professional Practice, NATA Code of Ethics, and professional development requirements for the entry-level athletic trainer.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Spring
ATR6517 - Healthcare Administration in Athletic Training Practice II

**Course Title**
Healthcare Administration in Athletic Training Practice II

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ATR 5516

**Course Description**
Reimbursement, organizational administration/planning, risk mitigation/management, and emergency preparedness are explored with regard to the practice of athletic training.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Spring

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ATR6618C - Athletic Training Research II

**Course Title**
Athletic Training Research II

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- ATR 5617

**Course Description**
Capstone groups will meet regularly, with guidance from a capstone adviser, to create a proposal for a capstone project.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Summer
ATR6619C - Athletic Training Research III

Course Title
Athletic Training Research III

Credits Hours
4

Lab/Studio/Field Work Hours
3

Prerequisites
- ATR 6618C

Course Description
This course requires the student to complete a group capstone project and disseminate the information as a scholarly product (oral or poster presentation).

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Spring

ATR6835L - Practicum in Athletic Training III

Course Title
Practicum in Athletic Training III

Credits Hours
1

Lab/Studio/Field Work Hours
2

Prerequisites
- ATR 5825L.

Course Description
Develop knowledge, skills, and attitudes by providing direct care of athletic injuries. Focus is on non-sport population, general medical conditions and/or surgical observation.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Summer
ATR6845L - Practicum in Athletic Training IV

Course Title
Practicum in Athletic Training IV

Credits Hours
9

Lab/Studio/Field Work Hours
30

Prerequisites
• ATR 6835L

Course Description
Develop knowledge, skills, and attitudes by providing direct care of athletic injuries. Focus is on a fully immersed athletic training experience.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Fall

ATR6855L - Practicum in Athletic Training V

Course Title
Practicum in Athletic Training V

Credits Hours
4

Lab/Studio/Field Work Hours
20

Prerequisites
• ATR 6845L

Course Description
Develop knowledge, skills, and attitudes by providing direct care of athletic injuries. Students are supervised by an assigned Preceptor.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Spring
ATR6917 - Directed Research

Course Title
Directed Research

Credits Hours
0 - 99

Lab/Studio/Field Work Hours
0-99

Course Description
This course is designed to enable the graduate student to engage in a research experience in the Athletic Training Laboratory throughout the semester.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Occasional

ATR6941 - Optional Internship

Course Title
Optional Internship

Credits Hours
0 - 4

Lab/Studio/Field Work Hours
0-4

Prerequisites

- ATR 5117C.

Course Description
Develop knowledge, skills, and attitudes by providing direct care of athletic injuries; to understand the medical delivery system in a variety of settings.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Occasional
ATR6957 - Study Abroad

Course Title
Study Abroad

Credits Hours
0 - 99

Lab/Studio/Field Work Hours
0-99

Course Description
Course allows a study abroad experience in the field of athletic training or sports medicine.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Occasional

AVM - Aviation Management

AVM5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

AVM5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

BCH - Biochemistry
BCH5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Chemistry

BCH5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Chemistry

BCH6740 - Advanced Biochemistry

Course Title
Advanced Biochemistry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Must meet proficiency requirement as determined by the Chemistry department or C.I.

Course Description
Biochemistry focusing on enzymology, regulation of the activity of enzymes and cellular chemical activity, and biochemical methods to study proteins.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Occasional

BME - Biomedical Engineering
BME5140 - Materials Science of Instrumentation for Clinical Applications

Course Title
Materials Science of Instrumentation for Clinical Applications

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
General graduate standing in Engineering, Biomedical Science, Biotechnology, Chemistry or related disciplines or C.I. Study of engineering and materials concepts behind the clinical diagnostics currently used and under development, as well as technologies utilized in fabrication and characterization of these devices.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Odd Fall

BME5216C - Mechanics of Biostructures I

Course Title
Mechanics of Biostructures I

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- Graduate standing or C.I.

Course Description
Part I of a two semester course. Mechanical analysis of hard and soft tissues and prosection lab on human anatomy and physiology.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Fall
BME5217C - Mechanics of Biostructures II

Course Title
Mechanics of Biostructures II

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- 5216C or C.I.

Course Description
Part II of a two semester course. Cell physiology and engineering principles applied to analysis of cellular processes and prosection anatomy lab on human anatomy and physiology.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Spring

BME5267 - Biofluid Mechanics

Course Title
Biofluid Mechanics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 3701 and EGM 3601 or C.I.

Course Description
This course will cover the physical and mathematical principals of fluid mechanics and its application and relevance to human physiology and pathology.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Fall
BME5572 - Biomedical Nanotechnology

Course Title
Biomedical Nanotechnology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 3123C with a "C" (2.0) or better grade.

Course Description
Human Physiology, Bioelectric Phenomena and Neurons, Nanoelectronics for fabrication of biochips for human biomedical applications, self-assembly, bioelectronics, moral and ethical issues.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring

BME5742C - Modeling Techniques and Methodologies in Bioengineering

Course Title
Modeling Techniques and Methodologies in Bioengineering

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- EGN 3034, PHY 2048C, or C.I.

Course Description
Model identification and simulation implementation for physiological systems (e.g., cardiovasular, respiratory, neural, and muscular systems)

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Fall
BME6215 - Advanced Biomechanics

Course Title
Advanced Biomechanics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- BME 5216C or C.I.

Course Description
The objectives of this course are to understand the basic concepts and biomedical applications of medical robotics, human motion mechanics and neuro-mechanics.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Spring

BME6231 - Continuum Biomechanics

Course Title
Continuum Biomechanics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EGM 3601.

Course Description
Material laws for biological tissues, with / without microstructure and/or an incompressibility constraint. Models of damage, growth, remodeling, and electro-mechanical coupling. Introduction to multiscale modeling.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Spring
BME6268C - Applied and Computational Biofluids

Course Title
Appplied and Computational Biofluids

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- EML 3701, EGM 3601, BME 5267, or C.I.

Course Description
Principles and foundations of applied fluid mechanics and computational methods to the human circulation.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Spring

BME6500C - Bioinstrumentation

Course Title
Bioinstrumentation

Credits Hours
3

Lab/Studio/Field Work Hours
2

Course Description
An introduction to the fundamental theory and experimental techniques needed for performing bioengineering measurements, designing related experiments, and analyzing experimental results.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Fall
BME6525 - Methods in Neural-Machine Interfaces

**Course Title**
Methods in Neural-Machine Interfaces

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHY 2048C and EML 4225, or C.I.

**Course Description**
Signal processing techniques for interpreting human intention from electromyography (EMG) and Electroencephalography (EEG) signals and human-safe control algorithms will be discussed and practiced.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Spring

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BME6908 - Independent Study

**Course Title**
Independent Study

**Credits Hours**
1 - 99

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Independent study on a topic taken to supplement current coursework.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Occasional
BME6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Student research under the direction of a BME faculty member.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

BME6935 - Topics in Biomedical Engineering

Course Title
Topics in Biomedical Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 3701 and EGM 3601 and graduate standing or C.I.

Course Description
In this course students will explore research topics in biomedical engineering (BME) guided by BME faculty. This team-taught course will involve seminars and presentations of research and case studies by faculty engaged in BME research as well as regional medical professionals.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Fall
BME6938 - ST: Continuum Biomechanics

Course Title
ST: Continuum Biomechanics

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- EGM 3601 and EML 5237.

Course Description
Material laws for biological tissues, with / without microstructure and/or an incompressibility constraint. Models of damage, growth, remodeling, and electro-mechanical coupling. Introduction to multiscale modeling.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

BME6971 - Thesis

Course Title
Thesis

Credits Hours
0 - 99

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing. Thesis course for students in Biomedical Engineering program.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
BMS6001 - Cellular Function and Medical Genetics
Course Title
Cellular Function and Medical Genetics
Credits Hours
5
Lab/Studio/Field Work Hours
0
Prerequisites
- Matriculation in the College of Medicine M.D. Program.
Course Description
Cellular Function and Medical Genetics is an integrated, multidisciplinary, review of the basic sciences of biochemistry, molecular biology; genetic, nutrition, pharmacology and cell biology underpinning modern medicine.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Fall

BMS6002 - Structure and Function
Course Title
Structure and Function
Credits Hours
11
Lab/Studio/Field Work Hours
0
Prerequisites
- Matriculation in the College of Medicine M.D. program.
Course Description
An integrated module with a curriculum that includes Clinical Anatomy, Embryology, Microanatomy, Physiology, and Neurosciences using medical imaging, clinical presentations, lectures, small-group sessions, team-based learning sessions.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
Fall

2021-2022 Graduate Catalog
BMS6006 - Health and Disease

Course Title
Health and Disease

Credits Hours
5

Lab/Studio/Field Work Hours
0

Prerequisites
- Matriculation in the College of Medicine M.D. program.

Course Description
Eight week module of the first year basic-science curriculum that integrates the following disciplines: immunology, microbiology, virology, pharmacology, and pathology.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring

BMS6015 - Practice of Medicine I

Course Title
Practice of Medicine I

Credits Hours
7

Lab/Studio/Field Work Hours
0

Prerequisites
- Matriculation in the College of Medicine M.D. program.

Course Description
Extending throughout the first year of medical school, this module includes skills training in medical interviewing and physical examination while also addressing the context of the medical practice.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
Fall
BMS6016 - Practice of Medicine II

Course Title
Practice of Medicine II

Credits Hours
8

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M-1 Term.

Course Description
P-2: Practice of Medicine is a year long module which teaches advanced clinical examination techniques and clinical reasoning skills integrated with organ systems modules.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
Fall

BMS6050 - Psychosocial Issues in Healthcare

Course Title
Psychosocial Issues in Healthcare

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Matriculation in the College of Medicine M.D. program. This module covers the role of psychosocial factors in health and illness, emphasizing communication skills, cultural differences, human sexuality, domestic violence, and alcohol misuse.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
BMS6123 - Human Anatomy and Embryology

Course Title
Human Anatomy and Embryology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Matriculation into the M.S. Genetic Counseling Program. An overview of the human body structure and development through lecture, group discussions, problem-solving, self-learning modules, team based learning, and clinical case studies.

College
College of Medicine

Department
Clinical Sciences

Terms of Offering
Fall

BMS6631 - Hematology and Oncology

Course Title
Hematology and Oncology

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Matriculation in the College of Medicine M.D. Program.

Course Description
Overview of major hematologic diseases: coagulation, and basic neoplasia. Pathology, pharmacology, laboratory and clinical medicine disciplines, emphasizing disease classification, differential diagnosis, and current treatments.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
BMS6632 - Endocrine and Reproductive Systems

Course Title
Endocrine and Reproductive Systems

Credits Hours
5

Lab/Studio/Field Work Hours
0

Prerequisites
• Completion of M-1 Term.

Course Description
The S-2 module is an integrated overview of diseases of the endocrine, reproductive, and genital systems. Pathology, pathophysiology, pharmacology, and clinical medicine disciplines are included.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Fall

BMS6633 - Cardiovascular and Pulmonary Systems

Course Title
Cardiovascular and Pulmonary Systems

Credits Hours
5

Lab/Studio/Field Work Hours
0

Prerequisites
• Completion of M-1 Term.

Course Description
The Cardio/Pulmonary module is an integrated, multidisciplinary, overview of medically-relevant cardiovascular and pulmonary conditions.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Fall
BMS6634 - Gastrointestinal and Renal Systems

Course Title
Gastrointestinal and Renal Systems

Credits Hours
5

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M-1 Term.

Course Description
The module is one of six organ-system based modules scheduled for the M2 and end of M1 years. The module provides overview of diseases of the gastro and renal systems.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Fall

BMS6635 - Skin and Musculoskeletal Systems

Course Title
Skin and Musculoskeletal Systems

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M-1 Term.

Course Description
The module is an integrated overview of diseases and disorders affecting the skin, connective tissues, and musculoskeletal systems.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
Fall
BMS6636 - Brain and Behavior
**Course Title**
Brain and Behavior

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of M-1 Term.

**Course Description**
This module integrates foundational principles of basic clinical neuroscience relevant for understanding normal nervous system function and the pathophysiologic basis of nervous system disorders.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Spring

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BMS6760 - Introduction to Genetic Counseling 1
**Course Title**
Introduction to Genetic Counseling 1

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Matriculation into the M.S. Genetic Counseling Program.

**Course Description**
An introduction of the basic principles of genetic counseling.

**College**
College of Medicine

**Department**
Clinical Sciences

**Terms of Offering**
Fall
BMS6761 - Introduction to Genetic Counseling 2

Course Title
Introduction to Genetic Counseling 2

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Matriculation into the M.S. Genetic Counseling Program.

Course Description
This course is a continuation of the basic principles of Genetic Counseling.

College
College of Medicine

Department
Clinical Sciences

Terms of Offering
Spring

BMS6762 - Advanced Genetic Counseling 1

Course Title
Advanced Genetic Counseling 1

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Matriculation into the M.S. Genetic Counseling Program.

Course Description
An overview of the advanced principles of genetic counseling; understanding the importance of pedigree, how to build a rapport with patients, and prepare for interactions with clients.

College
College of Medicine

Department
Clinical Sciences

Terms of Offering
Fall
BMS6763 - Advanced Genetic Counseling 2  
**Course Title**  
Advanced Genetic Counseling 2  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Matriculation into M.S. Genetic Counseling Program.  
**Course Description**  
Overview to continue the advanced principles of genetic counseling 2; the history of genetic counseling, the professional organizations, practice guidelines, and code of ethics.  
**College**  
College of Medicine  
**Department**  
Clinical Sciences  
**Terms of Offering**  
Spring  

BMS6764 - Medical Biochemistry and Physiology For Genetic Counselors  
**Course Title**  
Medical Biochemistry and Physiology For Genetic Counselors  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Matriculation into the M.S. Genetic Counseling Program.  
**Course Description**  
An overview of the fundamentals of medical biochemistry and physiology for genetic counselors.  
**College**  
College of Medicine  
**Department**  
Clinical Sciences  
**Terms of Offering**  
Spring
BMS6765 - Genetic Diseases of Human Organ Systems

Course Title
Genetic Diseases of Human Organ Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Matriculation into the M.S. Genetic Counseling Program.

Course Description
The Genetic Diseases of Human Organ Systems course provides an overview of genetic disease affecting the human organ systems through lecture, group discussions and problem solving, self-learning modules, team based learning, and clinical case studies.

College
College of Medicine

Department
Clinical Sciences

Terms of Offering
Spring

BMS6766 - Inborn Errors of Metabolism

Course Title
Inborn Errors of Metabolism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Matriculation into the M.S. Genetic Counseling Program.

Course Description
Overview of the fundamentals of genetic diseases associated with inborn errors of metabolism.

College
College of Medicine

Department
Clinical Sciences

Terms of Offering
Summer
BMS6767 - Molecular Diagnostics

Course Title
Molecular Diagnostics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Matriculation into the M.S. Genetic Counseling Program.

Course Description
An overview of basic laboratory skills used in molecular genetic clinical diagnostic laboratories for detecting genetic diseases.

College
College of Medicine

Department
Clinical Sciences

Terms of Offering
Fall

BMS6821 - Healthcare Ethics

Course Title
Healthcare Ethics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Matriculation into the M.S. Genetic Counseling Program.

Course Description
An overview on the ethical issues in healthcare, and also discuss influences on ethical decisions made by healthcare providers and patients.

College
College of Medicine

Department
Clinical Sciences

Terms of Offering
Fall
BMS6902 - Journal Club
Course Title
Journal Club
Credits Hours
1
Lab/Studio/Field Work Hours
0
Course Description
Matriculation into the M.S. Genetic Counseling Program. Students will review and discuss current literature relating to the practice of genetic counseling.

College
College of Medicine
Department
Clinical Sciences
Terms of Offering
Spring
Fall

BMS6910 - Focused Inquiry and Research Experience
Course Title
Focused Inquiry and Research Experience
Credits Hours
5
Lab/Studio/Field Work Hours
0
Prerequisites
- Matriculation in the College of Medicine M.D. program.

Course Description
This course provides the training and mentorship enabling medical students to successfully complete rigorous, independent, scholarly research projects in fields of individual passion.

College
College of Medicine
Department
College of Medicine MD Program
Terms of Offering
Spring
Fall
BMS6911 - Focused Inquiry and Research Experience II

Course Title
Focused Inquiry and Research Experience II

Credits Hours
5

Lab/Studio/Field Work Hours
0

Prerequisites
- Focused Inquiry and Research Experience I (BMS 6910).

Course Description
This course provides the training and mentorship enabling medical students to successfully complete rigorous, independent, scholarly research projects in fields of individual passion.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
Fall

BMS6950 - Capstone 1

Course Title
Capstone 1

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Matriculation into the M.S. Genetic Counseling Program.

Course Description
Students will identify a Capstone case and prepare a summary of all clinical presentation, diagnostic testing, and management considerations.

College
College of Medicine

Department
Clinical Sciences

Terms of Offering
Summer

2021-2022 Graduate Catalog
BMS6951 - Capstone 2

**Course Title**
Capstone 2

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Matriculation into the M.S. Genetic Counseling Program. Students will have a Capstone case for presentation; diagnostic testing and management considerations for a Capstone case.

**College**
College of Medicine

**Department**
Clinical Sciences

**Terms of Offering**
Spring

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**BOT - Botany**

**BOT5285L - Plant Microtechniques**

**Course Title**
Plant Microtechniques

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
6

**Prerequisites**
- BOT 4223C or C.I.

**Course Description**
Introduction to techniques used in the preparation of microscope slides/specimens of vascular plants, including infecting organisms.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Even Spring
BOT5505C - Advanced Plant Physiology

Course Title
Advanced Plant Physiology

Credits Hours
4

Lab/Studio/Field Work Hours
3

Prerequisites
- Permission of course instructor.

Course Description
Core aspects of plant physiology, with a hands-on research-driven focus on traits and processes that govern interaction with the environment.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Fall

BOT5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Biology

BOT5937 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Biology
BOT6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Biology

BOT6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Biology

BOT6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Biology

BOT6938C - Special Topics
Course Title
Special Topics
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Biology

BSC - Biology
BSC5316 - Marine Conservation Biology

Course Title
Marine Conservation Biology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- BSC 4312C Marine Biology, graduate standing, or C.I.

Course Description
Examine human impacts in marine ecosystems and how humans can become better stewards of these habitats.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Even Fall

BSC5408L - Advanced Biology Laboratory Techniques

Course Title
Advanced Biology Laboratory Techniques

Credits Hours
3

Lab/Studio/Field Work Hours
9

Prerequisites
- BS degree, C.I.

Course Description
This course will emphasize those biological techniques and resources necessary for students about to begin thesis research. Individual and small group instruction in current laboratory techniques, literature searches, and hands-on practice of techniques will be stressed. May not be repeated for credit.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Occasional
BSC5418 - Tissue Engineering

Course Title
Tissue Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Introduction to Tissue Engineering with a special emphasis on the current status of the field, on novel methods and on cell biomaterial interactions.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Occasional

BSC5436 - Biomedical Informatics : Structure Analysis

Course Title
Biomedical Informatics : Structure Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PCB 3522 or equivalent or C.I.

Course Description
Introduction of bioinformatics tools and resources on RNA and protein structure analysis.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Fall
BSC5476c - Scientific Diving

Course Title
Scientific Diving

Credits Hours
4

Lab/Studio/Field Work Hours
4

Prerequisites
- Graduate standing in the Dept. of Biology, and C.I.

Course Description
Introduction to scientific diving and satisfies the 100 hours of training required by the American Academy of Underwater Sciences.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Occasional

BSC5665 - Clinical Embryology and Congenital Malformations

Course Title
Clinical Embryology and Congenital Malformations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ZOO 3733C or equivalent.

Course Description
Functional human embryology in a clinically oriented way to study the human development and congenital malformations as a result of genetic, environmental and toxic conditions.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Summer
Fall
BSC5824 - Biogeography

**Course Title**

Biogeography

**Credits Hours**

4

**Lab/Studio/Field Work Hours**

0

**Course Description**

Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate In Conservation Biology, PSM in Conservation Biology, or C.I. Study of geographic variation in nature, ranging from past to present and from genes to ecosystems.

**College**

College of Sciences

**Department**

Department of Biology

**Terms of Offering**

Even Spring

BSC5917 - Directed Research

**Course Title**

Directed Research

**Credits Hours**

1 - 99

**College**

College of Sciences

**Department**

Department of Biology

BSC5937 - ST: Sensory Ecology

**Course Title**

ST: Sensory Ecology

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Graduate standing, or C.I.

**Course Description**

Study of how and why animals acquire, process and use information from their environment, and how sensory systems influence evolutionary processes.

**College**

College of Sciences

**Department**

Department of Biology
BSC6407C - Laboratory Methods in Molecular Biology

**Course Title**
Laboratory Methods in Molecular Biology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
6

**Prerequisites**
- Graduate standing, PCB 3522 or C.I.

**Course Description**
Description and practice of commonly used methods in molecular biology.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Fall

**Current Fee Per Student**
$70.00

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BSC6431 - Practice of Biomedical Sciences

**Course Title**
Practice of Biomedical Sciences

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Introduces students to the practice of biomolecular science.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Fall
BSC6432 - Biomedical Sciences I

Course Title
Biomedical Sciences I

Credits Hours
5

Lab/Studio/Field Work Hours
0

Prerequisites
- 1) Acceptance in the Molecular Biology and Microbiology master's program, or 2) Biochem I, or Molecular Biology 1 and 2, or Cell Biology, or C.I.

Course Description
First semester of a multi-disciplinary course. Topics include metabolic reactions, DNA replication and transcription. Lectures incorporate current scientific findings in the context of biomedical applications.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Fall

BSC6433 - Biomedical Sciences II

Course Title
Biomedical Sciences II

Credits Hours
5

Lab/Studio/Field Work Hours
0

Prerequisites
- BSC 6432, graduate standing.

Course Description
Second semester of a multi-disciplinary course. Topics covered include protein translation, signaling and bioinformatics. Lectures incorporate current scientific findings in the context of biomedical applications.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Spring
BSC6614 - Advanced Topics in Systematics

Course Title
Advanced Topics in Systematics

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- An evolution course, C.I., admission to graduate program.

Course Description
Discussion of new cutting edge topics in Systematics and hands on learning of computer data analysis in this field.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Occasional

BSC6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Biology

BSC6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Biology
BSC6935 - Seminar in Biology

Course Title
Seminar in Biology

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Biology M.S. or Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Course Description
Discussions and presentations addressing current research in the field of Biology. Graded S/U. May be used in the degree program a maximum of 2 times.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Spring
Fall

BSC6938 - ST: Complex Data in Biology

Course Title
ST: Complex Data in Biology

Credits Hours
4

Lab/Studio/Field Work Hours
1

Prerequisites
- PCB 6466 Methods in Experimental Ecology I or equivalent. A basic understanding of normal statistics (regression, ANOVA, etc.), genetics, and evolutionary biology is required.

Course Description
Covers advanced statistical and computational methods for handling complex biological data, including spatial autocorrelation, evolutionary datasets, high-dimensional traits, etc., at scales from molecular to ecological.

College
College of Sciences

Department
Department of Biology
BSC7919 - Doctoral Research
Course Title
Doctoral Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Biology

BTE - Business Teacher Education

BTE5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education

BTE5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education

BTE6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education
BTE6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education

BTE6935 - Seminar in Business Education
Course Title
Seminar in Business Education
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing or C.I.
Course Description
A survey of current problems, issues, and trends in business education.
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education
Terms of Offering
Summer

BTE6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education

BUL - Business Law
BUL5332 - Advanced Business Law Topics

Course Title
Advanced Business Law Topics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Admission to graduate program, or Management major or minor in term of graduation, BUL 3130.

Course Description
Advanced business law topics including coverage of the Uniform Commercial Code, torts, commercial paper, and secured transactions.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Spring
Fall

BUL5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

BUL5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting
BUL6444 - Law and Ethics

Course Title
Law and Ethics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Accepted for graduate study in College of Business Administration.

Course Description
Legal and ethical issues inherent in business decision making, including the effects of legislation, regulation, diversity, harassment, and other workplace issues on business activity.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Spring
Fall

BUL6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

BUL6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting
BUL6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Business Administration

**Department**
Kenneth G Dixon School of Accounting

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**CAP - Computer Applications**

CAP5055 - AI for Game Programming

**Course Title**
AI for Game Programming

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CS Foundation Exam or EEL 4851C or C.I.

**Course Description**
Surveys cutting-edge AI techniques for video games and board games and contrasts them with more traditional approaches.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Spring
CAPS100 - Human-Computer Interface Design
Course Title
Human-Computer Interface Design
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- COP 4331C, graduate standing and/or approval of the Director of the Software Engineering Certificate Program.
Course Description
Focuses on dynamics of human-computer interaction. Provides a comprehensive overview of HCI design as a software discipline. Features a user-centered approach to Web-based application design.
College
College of Engineering and Computer Science
Department
Department of Computer Science
Terms of Offering
Fall

CAPS115 - Virtual Reality Engineering
Course Title
Virtual Reality Engineering
Credits Hours
3
Lab/Studio/Field Work Hours
1
Prerequisites
- MAS 3105 or C.I.
Course Description
Virtual reality, scene graphs and computer graphics, development of travel, selection, manipulation, system control, animation-based, and physics-based interaction techniques, implementation of 360° videos.
College
College of Engineering and Computer Science
Department
Department of Computer Science
Terms of Offering
Fall
CAP5150 - Foundations of Computer Security and Privacy

Course Title
Foundations of Computer Security and Privacy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Students are expected to have knowledge equivalent to a BS in Computer Science.

Course Description
The course provides students with fundamental knowledge in computer security and privacy.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall

CAP5151 - Internet of Things Security and Privacy

Course Title
Internet of Things Security and Privacy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CAP 5200.

Course Description
This class introduces full-stack IoT security and privacy issues, including hardware, software, network, and data.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional
CAP5415 - Computer Vision

**Course Title**
Computer Vision

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- COP 3503C, MAC 2312 and COT 3960.

**Course Description**
Image formation, binary vision, region growing and edge detection, shape representation, dynamic scene analysis, texture, stereo and range images, and knowledge representation.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Fall

CAP5510 - Bioinformatics

**Course Title**
Bioinformatics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Background in programming language or molecular biology.

**Course Description**
This course introduces problems, concepts, algorithms, and applications in Bioinformatics. It covers essential topics such as sequence alignment and prediction of gene and protein structure.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Occasional
CAP5512 - Evolutionary Computation

Course Title
Evolutionary Computation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CAP 4630 or COP 3503C or C.I.

Course Description
This course covers the field of evolutionary computation, focusing on the theory and application of genetic algorithms.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional

CAP5516 - Medical Image Computing

Course Title
Medical Image Computing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAS 3105 and COP 4020 or COT 4210.

Course Description
This course provides students with the foundation necessary for understanding, visualizing, and quantifying medical images with computational methods.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
CAP5610 - Machine Learning

Course Title
Machine Learning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CAP 4630 or C.I.

Course Description
Origin/evaluation of machine intelligence; machine learning concepts and their applications in problem solving, planning and "expert systems" symbolic role of human and computers.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional

CAP5619 - Artificial Intelligence for FinTech

Course Title
Artificial Intelligence for FinTech

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COT 5840.

Course Description
Fundamentals of machine learning; deep learning; reinforcement learning; applications to customer service automation, personalization, biometrics, process automation, and fraud prevention.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall
CAP5636 - Advanced Artificial Intelligence  
**Course Title**  
Advanced Artificial Intelligence  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- CAP 4630.  
**Course Description**  
AI theory of knowledge representation, "expert systems", memory organization, problem solving, learning, planning, vision, and natural language.  
**College**  
College of Engineering and Computer Science  
**Department**  
Department of Computer Science  
**Terms of Offering**  
Fall  

CAP5725 - Computer Graphics I  
**Course Title**  
Computer Graphics I  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Course Description**  
Architecture of graphics processors; display hardware; principles of programming and display software; problems and applications of graphic systems.  
**College**  
College of Engineering and Computer Science  
**Department**  
Department of Computer Science  
**Terms of Offering**  
Spring
CAP5738 - Visualization Techniques for Data Analysis  
**Course Title**  
Visualization Techniques for Data Analysis  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Course Description**  
COP 3330, COP 3502C. Techniques for visualization that are useful for analyzing and presenting quantitative information are covered. Projects analyze one or more real-world publicly-available datasets. Understanding the data, visualizing it, creating hypotheses, and visually exploring them. Application of statistical techniques to test hypotheses about data trends and visualize how well their hypotheses match with their analysis.  

**College**  
College of Engineering and Computer Science  

**Department**  
Department of Computer Science  

**Terms of Offering**  
Every Semester  

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CAP5917 - Directed Research  
**Course Title**  
Directed Research  

**Credits Hours**  
1 - 99  

**College**  
College of Engineering and Computer Science  

**Department**  
Department of Computer Science  

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CAP5937 - ST: Mixed Reality - Virtual Reality  
**Course Title**  
ST: Mixed Reality - Virtual Reality  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
1  

**Course Description**  
Virtual reality, scene graphs, immersion, presence, VR sickness, interaction techniques, audio, haptics, system control, perception, interaction principles, physics, scenario fidelity, animations, virtual agents, 360° videos.  

**College**  
College of Engineering and Computer Science  

**Department**  
Department of Computer Science
CAP6105 - Pen-Based User Interfaces

Course Title
Pen-Based User Interfaces

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CAP 5610 or C.I.

Course Description
Designed to give students a thorough understanding of the techniques, algorithms, and evaluation methodologies used in designing and developing pen-, sketch-, and gesture-based user interfaces.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall

CAP6110 - Augmented Reality Engineering

Course Title
Augmented Reality Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- CAP 5115.

Course Description
Augmented reality, tracking, situated visualization, simultaneous localization and mapping, AR interactions, calibration, registration, occlusion, photometric registration, common illumination, diminished reality, viewpoint guidance, multiple perspectives, collaboration.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
CAP6117 - Mixed Reality Project

Course Title
Mixed Reality Project

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• CAP 6110.

Course Description
Mixed reality, project management, reporting, prototyping, gesture and voice recognition, design walkthroughs, sound design, 3D scanning, character generation, motion capture, UX inspections, tutorials, help, documentation.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall

CAP6121 - 3D User Interfaces for Games and Virtual Reality

Course Title
3D User Interfaces for Games and Virtual Reality

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• CAP 5725 or C.I.

Course Description
Introduction to the design, implementation, and evaluation of the fundamental techniques in spatial 3D interaction.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
CAP6133 - Advanced Topics in Computer Security and Computer Forensics

Course Title
Advanced Topics in Computer Security and Computer Forensics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
COP 5611, COT 5405, CNT 5008. Advanced topics in computer security and forensics such as cryptography; automatic intrusion
detection, advanced pattern matching, statistical techniques, firewalls, and vulnerability scanning.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional

CAP6135 - Malware and Software Vulnerability Analysis

Course Title
Malware and Software Vulnerability Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Digital Forensics MS major or CDA 5106 or COT 5405.

Course Description
Analyzes computer malicious codes, such as virus, worm, trojan, spyware, and software vulnerabilities, such as buffer-overflow.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
CAP6307 - Text Mining I

Course Title
Text Mining I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
COP 3330, CAP 4630; or C.I. Extracting knowledge from unstructured text collections. Document indexing, similarity and summarization, clustering, classification, named entity recognition and relation extraction, text stream processing. Several programming assignments.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional

CAP6315 - Social Media and Network Analysis

Course Title
Social Media and Network Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CAP 5316.

Course Description
Techniques developed by the computer science research community for analyzing social networks and social media datasets.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Summer
CAP6318 - Computational Analysis of Social Complexity

Course Title
Computational Analysis of Social Complexity

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
CAP 5316. Computational concepts, principles, modeling and simulation approaches used to analyze complex social and economic phenomena, leveraging the availability of large amounts of data, and elements of complexity theory.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Odd Spring

CAP6411 - Computer Vision Systems

Course Title
Computer Vision Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CAP 5415.

Course Description
Recent systems contributing toward recognition, reasoning, knowledge representation, navigation, and dynamic scene analysis. Comparisons, enhancements, and integrations of such systems.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional
**CAP6412 - Advanced Computer Vision**

**Course Title**
Advanced Computer Vision

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CAP 5415.

**Course Description**
Computational theories of perception, shape from IX<sub>∅</sub> techniques, multi-resolution image analysis, 3-D model based vision, perceptual organization, spatiotemporal model, knowledge-based vision systems.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Occasional

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**CAP6419 - 3D Computer Vision**

**Course Title**
3D Computer Vision

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CAP 5415 or EEL 5820 or C.I.

**Course Description**

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Occasional
CAP6515 - Algorithms in Computational Biology

Course Title
Algorithms in Computational Biology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COT 5405 or CAP 5510.

Course Description
This course will concentrate on algorithmic problems in computational biology.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall

CAP6517 - Computational Genomics

Course Title
Computational Genomics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CAP 5510.

Course Description
This course will summarize computational techniques for comparing and analyzing genomics; (DNA) sequences.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
**CAP6545 - Machine Learning Methods for Biomedical Data**

**Course Title**
Machine Learning Methods for Biomedical Data

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CAP 5510 or C.I.

**Course Description**
Summarize computational techniques for bridging two fields: machine learning and biomedical science to illustrate successful data mining and knowledge discovery in an interdisciplinary context.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Occasional

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**CAP6614 - Current Topics in Machine Learning**

**Course Title**
Current Topics in Machine Learning

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CAP 5610 or C.I.

**Course Description**
Machine learning, the study of algorithms that allow computer programs to learn from experience, is a rapidly changing area. This course will be a deep dive into current topics in machine learning, collected from papers appearing at recent machine learning conferences.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Spring
CAP6616 - Neuroevolution and Generative and Developmental Systems

Course Title
Neuroevolution and Generative and Developmental Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COP 3503C or C.I.

Course Description
Focuses on evolving neural networks for difficult sequential decision and control tasks and associated issues in efficient encoding and representation.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional

CAP6640 - Computer Understanding of Natural Language

Course Title
Computer Understanding of Natural Language

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CAP 5636.

Course Description
A study of the different approaches to build programs to understand natural language. The theory of parsing, knowledge representation, memory, and inference will be studied.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
CAP6671 - Intelligent Systems: Robots, Agents, and Humans  

Course Title  
Intelligent Systems: Robots, Agents, and Humans  

Credits Hours  
3  

Lab/Studio/Field Work Hours  
0  

Prerequisites  
- CAP 5610 or C.I.  

Course Description  
Includes practical techniques for designing intelligent agents capable of planning, learning, and cooperation. Discussion of psychological/social issues.  

College  
College of Engineering and Computer Science  

Department  
Department of Computer Science  

Terms of Offering  
Spring  

CAP6675 - Complex Adaptive Systems  

Course Title  
Complex Adaptive Systems  

Credits Hours  
3  

Lab/Studio/Field Work Hours  
0  

Prerequisites  
- Graduate standing or C.I.  

Course Description  
This course is an introduction to the field of complex adaptive systems and will cover basic definitions, theoretical background, and empirical analyses.  

College  
College of Engineering and Computer Science  

Department  
Department of Computer Science  

Terms of Offering  
Fall
CAP6676 - Knowledge Representation
Course Title
Knowledge Representation
Credits Hours
3
Lab/Studio/Field Work Hours
0
Course Description
CAP 5636. Topics covered include terminological languages, logicist approaches, ontologies, ontological and conceptual relativity, processes, intangibles, time, building large knowledge bases, and complexity analysis.
College
College of Engineering and Computer Science
Department
Department of Computer Science
Terms of Offering
Occasional

CAP6721 - Ray Tracing
Course Title
Ray Tracing
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- CAP 5725, programming experience.
Course Description
Advanced graphics: Implementation of ray tracing algorithm plus extensions, spatial subdivisions, MC sampling, camera models, texture mapping, instancing.
College
College of Engineering and Computer Science
Department
Department of Computer Science
Terms of Offering
Occasional
CAP6737 - Interactive Data Visualization

Course Title
Interactive Data Visualization

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COP 5711.

Course Description
Principles and techniques for interactive data visualization that are useful for analyzing, presenting and exploring information are covered. The emphasis will be on algorithmic aspects of developing interactive visualization. The students will receive practical experience of building interactive visualization systems.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring

CAP6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

CAP6918 - Directed Research

Course Title
Directed Research

Credits Hours
0 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science
CAP6938ST1 - ST: Advanced Virtual Reality
Course Title
ST: Advanced Virtual Reality

Credits Hours
3

Lab/Studio/Field Work Hours
3

Course Description
Advanced topics in virtual reality: Current and emerging technologies, methods, and application domains.

CAP6938ST2 - ST: Immersive Visualization: Using Virtual Reality Techniques to Extract Knowledge from Data
Course Title
ST: Immersive Visualization: Using Virtual Reality Techniques to Extract Knowledge from Data

Credits Hours
3

Lab/Studio/Field Work Hours
3

Course Description
Data sizes are growing beyond what standard tools can handle. This course looks at using immersive and virtual reality techniques to analyze and understand data.

CAP6942 - Project in Data Analytics
Course Title
Project in Data Analytics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
COP 5711, CAP 5610, CNT 5805 and STA 6704. A project-focused course that demonstrates mastery of data analytics through development of novel algorithms or innovative application of existing techniques for data mining applications.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Summer
Spring
CAP7919 - Research
Course Title
Research
Credits Hours
0 - 99
College
College of Engineering and Computer Science
Department
Department of Computer Science

CAP7939 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department
Department of Computer Science

CBH - Comparative Psychology and Animal Behavior

CBH5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology

CBH5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Psychology
CCE - Civil Construction Engineering

CCE5006 - Infrastructure Systems Management

Course Title
Infrastructure Systems Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
CCE 4004 and CCE 4034, or C.I. Essential elements of infrastructure systems and cover concepts, methods, and technologies essential for infrastructure life cycle engineering and management.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Spring
Fall

CCE5205 - Decision Support for Infrastructure Projects

Course Title
Decision Support for Infrastructure Projects

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
CCE 4004 and CCE 4034, or C.I.

Course Description
Infrastructure decision-making theories, data representation for decision analysis, advanced methods in decision-making, and applications of decision support systems in infrastructure projects.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Spring
Fall

2021-2022 Graduate Catalog
CCE5220 - Sustainable Infrastructure Systems

**Course Title**
Sustainable Infrastructure Systems

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
STA 3032. Introduce the principles of sustainability as they relate to the built environment and infrastructure systems; sustainability metrics; life cycle assessment; resilience; green building principles.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Spring

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CCE5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

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CCE5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering
CCE6036 - Advanced Construction Planning and Control

**Course Title**  
Advanced Construction Planning and Control

**Credits Hours**  
3

**Lab/Studio/Field Work Hours**  
0

**Prerequisites**  
- CCE 5006 and CCE 5205, or C.I.

**Course Description**  
Advanced concepts, theories, and applications in planning, estimating, and scheduling. Students will be introduced to dynamic project planning and optimization.

**College**  
College of Engineering and Computer Science

**Department**  
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**  
Spring  
Fall

CCE6045 - Cost Analysis of Sustainable Infrastructure Systems

**Course Title**  
Cost Analysis of Sustainable Infrastructure Systems

**Credits Hours**  
3

**Lab/Studio/Field Work Hours**  
0

**Prerequisites**  
- CCE 5006.

**Course Description**  
Cost engineering for construction organizations, projects, and operations. Topics include project cash flow analysis, construction cost accounting, evaluating investments, and life cycle cost analysis.

**College**  
College of Engineering and Computer Science

**Department**  
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**  
Odd Fall
CCE6211 - Design and Monitoring of Construction Processes

Course Title
Design and Monitoring of Construction Processes

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CCE 5006 and CCE 5205, or C.I.

Course Description
Concepts of integrated project delivery, improving site layout, advanced operations improvement technologies, improving site security, and green construction.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Spring
Fall

CCE6817 - Dynamics of Sustainable Systems

Course Title
Dynamics of Sustainable Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CCE 5220 or C.I.

Course Description
This course uses dynamic modeling as an experimental platform to study and analyze the dynamics of socio-technical problems in the engineering and construction industry.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Even Fall
CCE6918 - Directed Research; Independent Study

Course Title
Directed Research; Independent Study

Credits Hours
1 - 99

Course Description
This is a directed research independent study course.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CCE6971 - Thesis

Course Title
Thesis

Credits Hours
1 - 99

Course Description
This is a thesis course.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CCE7980 - Dissertation

Course Title
Dissertation

Credits Hours
1 - 99

Course Description
This is a dissertation course.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CCJ - Criminal Justice

2021-2022 Graduate Catalog
CCJ5015 - The Nature of Crime

Course Title
The Nature of Crime

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice graduate program, graduate certificate, or C.I.

Course Description
This course provides an overview of major dimensions of crime in the U.S.; epidemiology of crime, costs of crime, and typologies of crime and criminals.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional

CCJ5456 - The Administration of Justice

Course Title
The Administration of Justice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice graduate program, graduate certificate program, or C.I.

Course Description
This course provides an overview of the criminal justice system and a critical analysis of formal and informal processing of offenders by criminal justice agencies.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Every Semester
CCJ5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

CCJ5931 - Contemporary Criminal Justice Strategies

**Course Title**
Contemporary Criminal Justice Strategies

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Graduate level analysis of contemporary crime issues and the reactions of the criminal justice system to combat those crimes at both the national and international levels. May be used in the degree program a maximum of 3 times.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Occasional

CCJ5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice
CCJ6027 - Criminal Justice Responses to Terrorism

**Course Title**
Criminal Justice Responses to Terrorism

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**

- Admission to the Criminal Justice graduate program or C.I. Critically examines phenomena of domestic and international terrorism to give students a solid grounding of salient issues in developing crime control strategies to prevent terrorism and mount appropriate responses to incidents.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Occasional

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CCJ6038 - Violent Crimes and Criminals

**Course Title**
Violent Crimes and Criminals

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**

- Admission to Criminal Justice graduate program or C.I.

**Course Description**
This course provides critical examination of violent crimes and criminals. Students will focus on gathering, reviewing, analyzing and synthesizing evidence-based data on violent crime.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Occasional
CCJ6051 - Community Justice

Course Title
Community Justice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice graduate program, graduate certificate, or C.I.

Course Description
Examines concepts of community justice as they relate to an alternative form of administering criminal justice.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional

CCJ6067 - Perspectives on Genocide

Course Title
Perspectives on Genocide

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice graduate program or C.I.

Course Description
This course provides a critical examination of criminal justice perspectives on genocide.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional
CCJ6073 - Data Management Systems for Crime Analysis

**Course Title**
Data Management Systems for Crime Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to M.S. in Criminal Justice, Criminal Justice certificate, or C.I.

**Course Description**
This course is designed to provide the conceptual basis, understanding, and skills necessary for complex crime data manipulation.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Fall

CCJ6074 - Investigative and Intelligence Analysis: Theory and Methods

**Course Title**
Investigative and Intelligence Analysis: Theory and Methods

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
This course is designed to familiarize the student with the complex analytical techniques and procedures used to support criminal investigations and criminal intelligence efforts.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Occasional
CCJ6077 - Advanced Crime Mapping and Analysis in Criminal Justice

Course Title
Advanced Crime Mapping and Analysis in Criminal Justice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
CCJ 6073 and Crime Mapping and Analysis in Criminal Justice or C.I. Develop advanced mapping and analysis proficiency utilizing sophisticated spatial analysis techniques.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Summer

CCJ6079 - Crime Mapping and Analysis in Criminal Justice

Course Title
Crime Mapping and Analysis in Criminal Justice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
CCJ 6073.

Course Description
Course provides the conceptual knowledge and practical skills to design and implement GIS based analysis of community crime problems.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Spring
CCJ6106 - Policy Analysis in Criminal Justice

**Course Title**
Policy Analysis in Criminal Justice

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Criminal Justice graduate program, graduate certificate, or C.I.

**Course Description**
This course is designed to familiarize students with the causes and consequences of public policy with an emphasis on criminal justice policy.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

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CCJ6118 - Criminal Justice Organizations

**Course Title**
Criminal Justice Organizations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Theory and research on complex organizations are applied in criminal justice settings. Alternative organizational goals, structures, staffing patterns, management styles and planning strategies are examined.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Fall
CCJ6335 - Criminal Justice Sentencing and Punishment Policy

Course Title
Criminal Justice Sentencing and Punishment Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice graduate program, graduate certificate, or C.I.

Course Description
This course critically examines the impact of sentencing policy on the correctional system, offenders, their families and the communities to which they return upon release.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional

CCJ6366 - Criminal Justice Responses to Domestic Violence

Course Title
Criminal Justice Responses to Domestic Violence

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice graduate program and CCJ 6704 or C.I.

Course Description
This course examines the criminal justice response to domestic violence. Particular emphasis is placed on historical responses, policy as well as an examination of the current role of police, prosecutors, defense attorneys and magistrates in handling domestic assault and battery.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional
CCJ6431 - Leadership and Ethics in Criminal Justice

Course Title
Leadership and Ethics in Criminal Justice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice graduate program, graduate certificate, or C.I.

Course Description
Examines the leadership issues faced by decision makers in the criminal justice system.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional

CCJ6485 - Issues in Justice Policy

Course Title
Issues in Justice Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Examination of selected issues of public policy regarding the functions and roles of criminal justice agencies vis-a-vis other government departments or agencies and public purposes. May be repeated for credit.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Every Semester
CCJ6489 - Professionalism in Criminal Justice Organizations

Course Title
Professionalism in Criminal Justice Organizations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to M.S. in Criminal Justice, or C.I.

Course Description
Historical evolution of professionalism in criminal justice organizations and how it has changed the structure or practices of each involved agency.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Every Semester

CCJ6617 - Mental Disorder, Crime, and Criminal Justice

Course Title
Mental Disorder, Crime, and Criminal Justice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CCJ 5456, CCJ 5015, or C.I.

Course Description
An overview of the relationship between mental disorder, crime, and the criminal justice system.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional
CCJ6626 - Copycat Crime and Criminals

Course Title
Copycat Crime and Criminals

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
♦ Graduate standing or C.I.

Course Description
Explores the nature and prevalence of copycat crime while reviewing the theories, research and criminal justice policies associated with it.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional

CCJ6669 - Race, Crime and Justice

Course Title
Race, Crime and Justice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
♦ Admission to Criminal Justice graduate program or C.I.

Course Description
This course is designed to acquaint students of all disciplines with the operational dynamics of race, crime and justice.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional
**CCJ6675 - Human Rights and Criminal Justice**

**Course Title**
Human Rights and Criminal Justice

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Criminal Justice graduate program, Global Health and Public Affairs certificate, or C.I.

**Course Description**
Provides in-depth analysis of the human rights movement and its potential impact upon criminal law as well as the juvenile and criminal justice systems.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Occasional

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**CCJ6696 - Criminal Justice Perspectives on Human Trafficking**

**Course Title**
Criminal Justice Perspectives on Human Trafficking

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
This course introduces students to the problem, causes and suggested solutions for human trafficking both in the United States and abroad.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Spring
CCJ6699 - Criminal Justice Perspectives on Sexual Assault

Course Title

Criminal Justice Perspectives on Sexual Assault

Credits Hours

3

Lab/Studio/Field Work Hours

0

Course Description

Admission to Criminal Justice master's program. This course will examine the public policy response and the functions of criminal justice agencies as they identify, supervise and punish offenders and assist victims of sexual assault.

College

College of Community Innovation and Education

Department

Department of Criminal Justice

Terms of Offering

Spring

CCJ6702 - Advanced Research Methods in Criminal Justice

Course Title

Advanced Research Methods in Criminal Justice

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- Admission to Criminal Justice graduate program Research track and CCJ 6704.

Course Description

Exposes students to the application of research methods in criminal justice. This course serves as the capstone experience for the Research Track.

College

College of Community Innovation and Education

Department

Department of Criminal Justice

Terms of Offering

Spring
CCJ6704 - Research Methods in Criminal Justice

Course Title
Research Methods in Criminal Justice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice Master's program or C.I.

Course Description
An advanced examination of research methodology in criminal justice settings on such topics as problem conceptualization, sampling designs, research proposals, data collection, and evaluation techniques.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Fall
Spring
Even Summer

CCJ6706 - Data Analysis in Criminal Justice I

Course Title
Data Analysis in Criminal Justice I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CCJ 6704 and admission to Criminal Justice MS or MPA/MSCJ Dual degree program.

Course Description
Application of statistical software to quantitative and qualitative methods in Criminal Justice.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Fall
Spring
Odd Summer
CCJ6714 - Data Analysis in Criminal Justice II

Course Title
Data Analysis in Criminal Justice II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice Master's program and CCJ 6706.

Course Description
Application of multivariate linear and nonlinear statistical techniques to criminal justice issues. Focus is on selecting appropriate procedures, computer-based analysis and interpreting and applying results.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional

CCJ6717 - CJ Theories of Crime Analysis and Prevention

Course Title
CJ Theories of Crime Analysis and Prevention

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Criminal Justice M.S. program, Crime Analysis certificate or C.I. This course provides the theoretical foundation for crime analysis and crime prevention.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Fall
CCJ6902 - Qualitative Criminal Justice Research Methods

Course Title
Qualitative Criminal Justice Research Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Criminal Justice PhD, or C.I. This course provides the theoretical and methodological foundation for conducting and assessing qualitative criminal justice research.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional

CCJ6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Criminal Justice

CCJ6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Criminal Justice
CCJ6934 - Criminal Justice, Crime, and Popular Culture

**Course Title**
Criminal Justice, Crime, and Popular Culture

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Explore how Criminal Justice System, criminals, and crime are portrayed in entertainment and news media, and the effects portrayals have on society and criminal justice.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Occasional

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CCJ6938 - Special Topics in Criminal Justice

**Course Title**
Special Topics in Criminal Justice

**Credits Hours**
1 - 99

**Lab/Studio/Field Work Hours**
Jan-99

**Course Description**
Students are exposed to in-depth coverage of a particular contemporary problem in criminal justice, for example, the death penalty or the influence of the media on crime and punishment.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Occasional
CCJ6939 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
Department of Criminal Justice

CCJ6946 - Criminal Justice Practicum
Course Title
Criminal Justice Practicum
Credits Hours
1 - 99
Lab/Studio/Field Work Hours
Jan-99
Course Description
Students will undertake a significant research project in a criminal justice agency. May be repeated for credit.
College
College of Community Innovation and Education
Department
Department of Criminal Justice

CCJ7019 - Seminar in the Nature of Crime
Course Title
Seminar in the Nature of Crime
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to Criminal Justice Ph.D. program.
Course Description
This course will cover the major criminological theories pertaining to the causes and consequences of criminal behavior, including early and contemporary perspectives.
College
College of Community Innovation and Education
Department
Department of Criminal Justice
Terms of Offering
Fall
CCJ7096 - Seminar in Criminal Justice Systems
Course Title
Seminar in Criminal Justice Systems
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission into the Criminal Justice Ph.D. program.
Course Description
Coverage of the three central elements of the criminal justice system - policing, courts and corrections - and the primary factors affecting practices and operations of each.
College
College of Community Innovation and Education
Department
Department of Criminal Justice
Terms of Offering
Fall

CCJ7457 - Seminar in Criminal Justice Theory
Course Title
Seminar in Criminal Justice Theory
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to Criminal Justice Ph.D. program.
Course Description
This course examines the theoretical foundations of Criminal Justice. The focus is on explaining how and why Criminal Justice agents, agencies, and systems behave.
College
College of Community Innovation and Education
Department
Department of Criminal Justice
Terms of Offering
Fall
CCJ7708 - Advanced Quantitative Methods for Criminal Justice Research

Course Title
Advanced Quantitative Methods for Criminal Justice Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice Ph.D. program.

Course Description
This course will cover advanced regression techniques appropriate for analyzing experimental, quasi-experimental and observational criminal justice data including general linear, log-linear and multivariate models.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Spring

CCJ7725 - The Geography of Crime: Theory and Methods

Course Title
The Geography of Crime: Theory and Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice Ph.D. program and CCJ 6073 and CCJ 6709 or equivalent.

Course Description
This course will cover key theoretical and practical approaches related to the understanding and examination of the geography of crime.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional
CCJ7727 - Advanced Research Methods in Criminal Justice

**Course Title**
Advanced Research Methods in Criminal Justice

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Criminal Justice Ph.D. program.

**Course Description**
This course will cover advanced research design topics and methodologies used in criminal justice research including quantitative, qualitative and mixed method techniques.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Fall

CCJ7741 - Advanced Quantitative Methods II for Criminal Justice Research

**Course Title**
Advanced Quantitative Methods II for Criminal Justice Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Criminal Justice Ph.D. program and CCJ 7708.

**Course Description**
Course covers the theory and application of an array of advanced statistical modeling techniques for different types of data and research designs in criminal justice.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Fall
CCJ7747 - Hierarchical Linear Modeling in Criminal Justice Research

Course Title
Hierarchical Linear Modeling in Criminal Justice Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice Ph.D. program and CCJ 7708.

Course Description
Overview of techniques of hierarchical linear modeling with an emphasis on application in criminal justice research.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional

CCJ7752 - Structural Equation Modeling in Criminal Justice Research

Course Title
Structural Equation Modeling in Criminal Justice Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice Ph.D. Program and CCJ 7708.

Course Description
Overview of techniques of structural equation modeling with an emphasis on application in criminal justice research.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional
CCJ7775 - Criminal Justice Research in the Community

Course Title
Criminal Justice Research in the Community

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into the Criminal Justice Ph.D. program.

Course Description
This course addresses the history of community-based research, different models of community-based research, and challenges associated with conducting community-based research in criminal justice.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Spring

CCJ7785 - Teaching Criminal Justice

Course Title
Teaching Criminal Justice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
CCJ 7096, CCJ 7019 and CCJ 7457. This course is designed to expose students to various pedagogical philosophies, approaches, technologies, and ethical issues from a criminal justice perspective.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Summer
CCJ7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Criminal Justice

CCJ7939 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
Department of Criminal Justice

CDA - Computer Design/Architecture

CDA5106 - Advanced Computer Architecture

Course Title
Advanced Computer Architecture

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4768C.

Course Description
Modern processor design, instruction-level parallelism, thread-level parallelism, data-level parallelism, memory hierarchy, and I/O.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
Fall

2021-2022 Graduate Catalog
CDA5110 - Parallel Architecture and Algorithms

Course Title
Parallel Architecture and Algorithms

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COT 4210, CDA 5106.

Course Description
General-purpose vs. special-purpose parallel computers; arrays, message-passing; shared-memory; taxonomy; parallelization techniques; communication synchronization and granularity; parallel data structures; automatic program restructuring.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional

CDA5121 - High Performance Computing and Programming

Course Title
High Performance Computing and Programming

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COP 3503C or C.I.

Course Description
Basic hardware and software knowledge and essential programming skills for high-performance computing (HPC) including GPU computing and big data computing.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall
CDA5209 - Foundations of Secure Execution Environment

Course Title
Foundations of Secure Execution Environment

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CDA 5106

Course Description
This class is a graduate course covering the foundations of secure execution environment.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring

CDA5220 - Foundations of Secure Execution Environment

Course Title
Foundations of Secure Execution Environment

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CDA 5106.

Course Description
This class covers the foundations of secure execution environment.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
CDA5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Computer Science

CDA5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department
Department of Computer Science

CDA6107 - Parallel Computer Architecture
Course Title
Parallel Computer Architecture
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- CDA 5106.
Course Description
Principles and trade-offs in the design of parallel architectures, shared-memory, message-passing, dataflow, data-parallel machines, cache coherence protocols, and consistence models.
College
College of Engineering and Computer Science
Department
Department of Computer Science
Terms of Offering
Spring
CDA6221 - Advanced Topics in Secure Execution Environment

Course Title
Advanced Topics in Secure Execution Environment

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CDA 5201.

Course Description
This class covers the advanced topics in secure execution environment.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional

CDA6530 - Performance Models of Computers and Networks

Course Title
Performance Models of Computers and Networks

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Performance models of computer systems and networks using probability models and discrete event simulations. Queuing theory and modeling tools.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional
CDA6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Computer Science

CDA6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Computer Science

CDA6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department
Department of Computer Science

CDA7919 - Research
Course Title
Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Computer Science
CDA7939 - Special Topics

Course Title: Special Topics
Credits Hours: 3
College: College of Engineering and Computer Science
Department: Department of Computer Science

CEG - Civil Geotechnical Structures

CEG5405 - Seepage in Soils
Course Title: Seepage in Soils
Credits Hours: 3
Lab/Studio/Field Work Hours: 0
Prerequisites:
- CEG 4011C.
Course Description:
Principles of flow through soils; flow nets, analytical solutions; seepage forces, design of filters and drainage layers; dewatering, drainage in dams, embankments, and pavement systems.
College: College of Engineering and Computer Science
Department: Department of Civil, Environmental, and Construction Engineering
Terms of Offering: Even Spring

CEG5917 - Directed Research
Course Title: Directed Research
Credits Hours: 1 - 99
College: College of Engineering and Computer Science
Department: Department of Civil, Environmental, and Construction Engineering
CEG5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CEG6065 - Soil Dynamics

Course Title
Soil Dynamics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CEG 4011C.

Course Description
Comprehensive coverage in calculating the dynamic response of foundations, presenting a variety of contemporary techniques for fields and laboratory.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
CEG6115 - Foundation Engineering

Course Title
Foundation Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CEG 4012 or C.I.

Course Description
Analysis and design of spread footings, mat foundations, retaining walls, sheeting and bracing systems and pile foundations.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

CEG6317 - Advanced Geotechnical Engineering

Course Title
Advanced Geotechnical Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CEG 4012 or C.I.

Course Description
Mechanics of soils and models; elasticity and plasticity of soil bodies; strength of soils and stability of soil structures.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
CEG6515 - Retaining Structures and Slope Stability

Course Title
Retaining Structures and Slope Stability

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CEG 4011C and CEG 4012 or C.I.

Course Description
Earth pressures, retaining structures, design of retaining walls, sheet piles, mechanically stabilized earth, soil nails, anchored and braced excavations. Slope stability, shear strength, limit equilibrium.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Even Fall

CEG6610 - Smart Underground Structures: Tunnels and Shafts

Course Title
Smart Underground Structures: Tunnels and Shafts

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CEG 4011C and CEG 4012 or C.I.

Course Description

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Fall
CEG6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering

CEG6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering

CEG6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering
CEG7980 - Dissertation

Course Title
Dissertation

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
0

Course Description
May be repeated for credit.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Every Semester

CEN - Computer Programming

CEN5016 - Software Engineering

Course Title
Software Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COP 4331C.

Course Description
Application of formal software processes, engineering methods, and documentation standards to the development of large scale software systems. A team project is required.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
CEN5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

CEN5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Computer Science

CEN6075 - Formal Specification of Software Systems

Course Title
Formal Specification of Software Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Discrete math (equivalent to COT 3100C, MAD 2104, or MHF 3302) or C.I.

Course Description
Issues and current research in formal specification and verification of software-intensive systems. mathematical models and formalisms.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Odd Spring
CEN6087 - Cloud Computing

Course Title
Cloud Computing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CDA 5106 or C. I.

Course Description
Introduces cloud computing, infrastructure, applications, architecture, resource management, security, cloud storage systems and networks for computer clouds.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall

CEN6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

CEN6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science
CEN6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

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**CES - Civil Engineering Structure**

CES5144 - Matrix Methods for Structural Analysis

**Course Title**
Matrix Methods for Structural Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CES 4100C or C.I.

**Course Description**
Implementation of the matrix methods for structural analysis that are commonly and currently used in practice and in research, special topics such as finite element formulations, special analysis procedures, and use of software packages.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Even Fall
**CES5325 - Bridge Engineering**  
**Course Title**  
Bridge Engineering  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- CES 4605 and CES 4702 or C.I.  

**Course Description**  
Bridge engineering fundamentals, design philosophies, analysis and design concepts for concrete and steel bridges, AASHTO specifications, Bridge rating, and introduction to Bridge health monitoring.  

**College**  
College of Engineering and Computer Science  

**Department**  
Department of Civil, Environmental, and Construction Engineering  

**Terms of Offering**  
Occasional  

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**CES5606 - Advanced Steel Structures**  
**Course Title**  
Advanced Steel Structures  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- CES 4605.  

**Course Description**  
Behavior and design of steel buildings; emphasis on AISC-LRFD building code; complex connections, tension members, stability of compression members, laterally unsupported beams, frames, and beam columns.  

**College**  
College of Engineering and Computer Science  

**Department**  
Department of Civil, Environmental, and Construction Engineering  

**Terms of Offering**  
Occasional
CES5706 - Advanced Reinforced Concrete

Course Title
Advanced Reinforced Concrete

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- CES 4702 or C.I.

Course Description
Design of frames, two-way floor systems, shear walls; shear and torsion; compression field theory; inelastic analysis; wind and seismic design; introduction to prestressed concrete.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

CES5821 - Masonry and Timber Design

Course Title
Masonry and Timber Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- C.I.

Course Description
Structural properties of masonry and timber; design loads-codes and standards; analysis for axial loads, flexure and shear.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
CES5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

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CES5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

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CES6010 - Structural Reliability

**Course Title**
Structural Reliability

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- STA 3032 and CES 4100C or equivalent course or C.I.

**Course Description**
Application of probability theory to classical and computational reliability methods for civil systems. Topics in component and system reliability, simulation, bounds, sensitivity, and model updating.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Occasional
CES6116 - Finite Element Structural Analysis
Course Title
Finite Element Structural Analysis
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- CES 5144 or C.I.
Course Description
Concept, theory, and application of the finite element method; analysis of one-, two-, and three-dimensional structural components and systems; stability and dynamics; applications.
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering
Terms of Offering
Occasional

CES6209 - Dynamics of Structures
Course Title
Dynamics of Structures
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- C.I.
Course Description
Response analysis of single and multi-degree-of-freedom systems to periodic and non-periodic excitations; continuous systems; response spectra; applications in structural engineering.
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering
Terms of Offering
Occasional
CES6220 - Wind and Earthquake Engineering

Course Title
Wind and Earthquake Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CES 6209 or C.I.

Course Description
Wind characteristics; wind effects on structures; dynamic analysis for wind loads; nature of earthquake forces; response spectra and seismic design; wind and seismic codes.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

CES6230 - Advanced Structural Mechanics

Course Title
Advanced Structural Mechanics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Review of biaxial bending and torsion; plate bending; theory of elasticity, visco-elasticity and plasticity; anisotropic elasticity and stability.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
CES6527 - Nonlinear Structural Analysis

Course Title
Nonlinear Structural Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CES 5144 or C.I.

Course Description
Structural nonlinear analysis theory and applications, including material and geometric nonlinearity, numerical methods and solution strategies, inelastic element formulation, and use of software packages.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

CES6715 - Prestressed Concrete Structures

Course Title
Prestressed Concrete Structures

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CES 4702 and CES 5706 or C.I.

Course Description
Prestressed concrete behavior and design; applications in building and bridge design including pre- and post-tensioned girders, floors, roofs, and walls.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
CES6876 - Smart City Built Infrastructure

Course Title
Smart City Built Infrastructure

Credits Hours
3

Prerequisites
- CES4100 with a grade of “C” (2.0) or better or C.I.

Course Description
Introduction to concepts, methods and technologies related to design, assessment, analysis, monitoring and non-destructive evaluation methods with specific applications for smart city built infrastructure.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Fall

CES6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CES6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering
CES6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering

CES7919 - Research
Course Title
Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering

CES7939 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering

CGN - Civil Engineering
CGN5340 - Internet of Things: Applications in Smart Cities

Course Title
Internet of Things: Applications in Smart Cities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CGN 3405 or C.I.

Course Description
Internet of Things (IoT), urban sensing ecosystem, technological tools and methods, smart city infrastructure, IoT applications for smart cities, challenges and case studies.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Spring

CGN5341 - Interdisciplinary Introduction to Smart Cities' Applications

Course Title
Interdisciplinary Introduction to Smart Cities' Applications

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TTE3810 and ENV 3001 with a grade of "C" (2.0) or better or C.I.

Course Description
This course provides a broad multidisciplinary background about the different systems and technologies used in Smart Cities.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Spring
Fall
CGN5506 - Advanced Pavement and Civil Engineering Materials

Course Title
Advanced Pavement and Civil Engineering Materials

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
CGN 3501C, CEG 4011C. Pavement and civil engineering materials such as aggregate, Portland cement, and concrete. In addition, mechanics, modeling, analysis, and design of those materials will be included.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

CGN5617 - Infrastructure Systems Optimization and Identification

Course Title
Infrastructure Systems Optimization and Identification

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 3032, CGN 3405, Basic programming skills, or C.I.

Course Description
This course covers the advanced mathematical programming techniques that are useful for civil infrastructure planning, operations, and maintenance with increasing infrastructure connectivity and data availability.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Spring
Fall
CGN5877 - Monitoring for Infrastructure Systems

Course Title
Monitoring for Infrastructure Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- One of the following: CES 4100C, ENV 4120, ENV 4561, CWR 4203C, CWR 4101C or CCE 4004.

Course Description
Applications of modern instrumentation and data processing technologies to infrastructure monitoring and assessment. Topics in current and state-of-the-art monitoring techniques, SHM for infrastructure systems, and case studies on performance-based evaluation.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Odd Spring

CGN5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CGN5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering
CGN6342 - Modeling Human Behavior with Emerging Data

Course Title
Modeling Human Behavior with Emerging Data

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Parsing and visualizing trajectory data, probabilistic graphical models, hidden Markov models, human mobility models, transportation network analysis, traffic state prediction, data-driven traffic assignment.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Spring

CGN6343 - Cyber-Physical Systems and Smart Cities

Course Title
Cyber-Physical Systems and Smart Cities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CGN 5555 or C.I.

Course Description
Introduction to cyber-physical systems, smart cities as large-scale CPS, modeling and control of networked interconnected agents, mean field games, applications and case studies.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Fall
CGN6655 - Regional Planning, Design, and Development

Course Title
Regional Planning, Design, and Development

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Project course dealing with planning, design, and development of regional systems, including projections, case studies, design alternatives, environmental impact, etc.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

CGN6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CGN6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering
CGN6938ST1 - Mobility in Smart Cities: Technologies and Application Areas

Course Title
Mobility in Smart Cities: Technologies and Application Areas

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
The course introduces students to research developments in intelligent transportation systems infrastructure with a focus on video-based data collection and networks connectivity.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CGN7919 - Doctoral Research

Course Title
Doctoral Research

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CGN7980 - Dissertation

Course Title
Dissertation

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CGS - Computer General
CGS5131 - Computer Forensics I: Seizure and Examination of Computer Systems

Course Title
Computer Forensics I: Seizure and Examination of Computer Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Computer literacy and C.I.

Course Description
Legal issues regarding seizure and chain of custody. Technical issues in acquiring computer evidence. Popular file systems are examined. Reporting issues in the legal system.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall

Current Fee Per Student
$50.00

CGS5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

CGS5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Computer Science
CGS5949 - Cooperative Education in Computer General
Course Title
Cooperative Education in Computer General
Credits Hours
0 - 99
College
College of Engineering and Computer Science
Department
Department of Computer Science

CGS6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Computer Science

CGS6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Computer Science

CGS6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department
Department of Computer Science
**CGS6949 - Cooperative Education in Computer General**

**Course Title**
Cooperative Education in Computer General

**Credits Hours**
0 - 99

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

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**CHI - Chinese**

**CHI5917 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**CHI5937 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

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**CHM - Chemistry**
CHM5225 - Advanced Organic Chemistry

Course Title
Advanced Organic Chemistry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CHM 2211, graduate status or senior standing, or C.I.

Course Description
Theoretical and physical organic concepts of organic systems from the perspective of modern structural theory, thermodynamics, and kinetics.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Odd Fall

CHM5235 - Applied Molecular Spectroscopy

Course Title
Applied Molecular Spectroscopy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CHM 3120 and CHM 2211, and graduate status or senior standing or C.I.

Course Description
Determination of chemical structure through interpretation of UV, IR, NMR and Mass Spectra.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Occasional
CHM5305 - Bioconjugate Chemistry

Course Title
Bioconjugate Chemistry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- BCH 4053 Biochemistry, and graduate status or senior standing or C.I.

Course Description
Reactivity of biological molecules, synthesis and properties of modified carbohydrates, proteins, lipids and nucleic acids, principles of bioconjugation.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Occasional

CHM5450 - Polymer Chemistry

Course Title
Polymer Chemistry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CHM 2211, and graduate status or senior standing or C.I.

Course Description
An introduction to the chemistry of synthetic polymers. Synthetic methods, polymerization mechanisms, characterization techniques, and polymer properties will be considered.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Even Fall
CHM5451C - Techniques in Polymer Science
Course Title
Techniques in Polymer Science

Credits Hours
3

Lab/Studio/Field Work Hours
5

Prerequisites
- CHM 2211 and CHM 3410, graduate status or senior standing, or C.I.

Course Description
A laboratory and lecture course designed to introduce students to the major polymerization mechanisms along with polymer characterization and processing methods using modern instrumentation.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Odd Spring

Current Fee Per Student
$63.00

CHM5580 - Advanced Physical Chemistry
Course Title
Advanced Physical Chemistry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Corequisites
- CHM 3411 and PR: MAC 2313, and graduate standing or senior standing or C.I.

Course Description
Selected topics of thermodynamics, kinetics, quantum mechanics, and structure.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Occasional
CHM5675 - Bioinorganic Chemistry

Course Title
Bioinorganic Chemistry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- BCH 4053.

Corequisites
- CHM 4610.

Course Description
Overview of the role of metals in biology. Emphasis on structure-function relationships of metalloenzymes, metalloenzyme mechanism, and spectroscopies and techniques commonly used for these structures.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Spring

CHM5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Chemistry
CHM5937 - ST: Bioinorganic Chemistry

Course Title
ST: Bioinorganic Chemistry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- BCH 4053, or C.I.

Course Description
The role of metals in biology. Emphasis on structure-function relationships of metalloenzymes, metalloenzyme mechanism, and spectroscopies and techniques commonly used for these studies.

College
College of Sciences

Department
Department of Chemistry

CHM6134 - Advanced Instrumental Analysis

Course Title
Advanced Instrumental Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CHM 6710.

Course Description
Advanced instrumental techniques related to luminescence spectroscopy and applications to chemical analysis.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Occasional
CHM6440 - Kinetics and Catalysis

**Course Title**

Kinetics and Catalysis

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Must meet proficiency requirement as determined by the Chemistry Department or C.I.

**Course Description**

Classical kinetics with an emphasis on industrial applications and current catalysis methodologies.

**College**

College of Sciences

**Department**

Department of Chemistry

**Terms of Offering**

Spring

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CHM6492 - Atomic Spectroscopy

**Course Title**

Atomic Spectroscopy

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- CHM 3120 or C.I.

**Course Description**

Theory and instrumentation for atomic absorption and emission spectroscopy with focus on their applications in various fields including forensic science.

**College**

College of Sciences

**Department**

Department of Chemistry

**Terms of Offering**

Spring
CHM6620 - Solid State Inorganic Chemistry

**Course Title**
Solid State Inorganic Chemistry

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CHM 4610, or C.I.

**Course Description**
Structure and chemistry of novel solid-state inorganic materials and their emerging applications.

**College**
College of Sciences

**Department**
Department of Chemistry

**Terms of Offering**
Occasional

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CHM6710 - Applied Analytical Chemistry

**Course Title**
Applied Analytical Chemistry

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Must meet proficiency requirement as determined by the Chemistry department or C.I.

**Course Description**
Concepts in molecular structure that integrate structural, physical, and chemical properties with aspects of industrial and analytical chemistry.

**College**
College of Sciences

**Department**
Department of Chemistry

**Terms of Offering**
Fall
CHM6711 - Chemistry of Materials

Course Title
Chemistry of Materials

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CHM 2211, CHM 4130C, and CHM 3411, or C.I.

Course Description
Structure and properties of chemical products, with an emphasis on the correlation between molecular form and the functional properties deemed desirable for the product.

College
College of Sciences

Department
Department of Chemistry

CHM6908 - Directed Independent Studies

Course Title
Directed Independent Studies

Credits Hours
1 - 99

Prerequisites
- Instructor Consent Required

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Occasional

CHM6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Chemistry
CHM6918 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Chemistry

CHM6936 - Graduate Chemistry Seminar
Course Title
Graduate Chemistry Seminar
Credits Hours
1
Lab/Studio/Field Work Hours
0
Prerequisites
- C.I.
Course Description
Students attend faculty-level seminars for multiple semesters dictated by their program. Students will need to complete CITI during first semester.
College
College of Sciences
Department
Department of Chemistry
Terms of Offering
Spring
Fall

CHM6938 - ST: Electrochemistry
Course Title
ST: Electrochemistry
Credits Hours
3
Prerequisites
- Bachelor degree in Chemistry or consent of instructor.
Course Description
Electrochemistry course is design to study the fundamentals of electrochemical reactions with focus on electrode reaction mechanisms. It will include theory/practice of advanced electrochemical-analytical methods.
College
College of Sciences
Department
Department of Chemistry
CHM6949 - Cooperative Education in Chemistry

Course Title
Cooperative Education in Chemistry

Credits Hours
0 - 99

College
College of Sciences

Department
Department of Chemistry

CHM6971 - TREATISE (THESIS OR Research Report)

Course Title
TREATISE (THESIS OR Research Report)

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Chemistry

CHM7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Chemistry

CHM7939 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Chemistry

CHS - Chemistry Specialized
CHS5502 - Principles of Forensic Science

Course Title
Principles of Forensic Science

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• Admission to Forensic Science MS program or C.I.

Course Description
Principles of forensic science crime scene investigation, concepts in physical and biological evidence, evidence collection and transport, discrimination and individualization of evidence.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Even Spring

CHS5504 - Topics in Forensic Science

Course Title
Topics in Forensic Science

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• Admission to Digital Forensics M.S. or Computer Forensics graduate certificate or C.I.

Course Description
History and current topics in Forensic Science.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Fall
CHS5507 - Chemometric Applications in Forensic Science

**Course Title**
Chemometric Applications in Forensic Science

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CHS 5504, or C.I.

**Course Description**
Modern methods of evaluating the evidential value of forensic data from physical evidence, including fibers, glass, ignitable liquids and others.

**College**
College of Sciences

**Department**
Department of Chemistry

**Terms of Offering**
Even Spring

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CHS5518 - The Forensic Collection and Examination of Digital Evidence

**Course Title**
The Forensic Collection and Examination of Digital Evidence

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Adv topics in Forensic Science, graduate status, or C.I.

**Course Description**
This course will cover the nature of Digital Evidence collection and examination under the constraints of Law and courtroom procedures.

**College**
College of Sciences

**Department**
Department of Chemistry

**Terms of Offering**
Summer
CHS5596 - The Forensic Expert in the Courtroom
Course Title
The Forensic Expert in the Courtroom
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission into M.S. Forensic Science program, the Digital Forensics M.S. or the Computer Forensics graduate certificate or C.I.
Course Description
Uses of technically and scientifically trained expert witnesses at trial.
College
College of Sciences
Department
Department of Chemistry
Terms of Offering
Spring

CHS5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Chemistry

CHS5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Chemistry
CHS6240 - Chemical Thermodynamics

Course Title
Chemical Thermodynamics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Must meet proficiency requirement as determined by the Chemistry department or C.I.

Course Description
Classical and statistical thermodynamics with emphasis on industrial applications and estimation methods.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Fall

CHS6251 - Applied Organic Synthesis

Course Title
Applied Organic Synthesis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Must meet proficiency requirement as determined by the Chemistry department or C.I.

Course Description
A survey of chemical syntheses from both a product-oriented standpoint and a process-oriented standpoint. Relevant examples from the pharmaceutical and agricultural chemical industries.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Spring
CHS6260 - Chemical Unit Operations and Separations

Course Title
Chemical Unit Operations and Separations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CHM 3411.

Course Description
A study of the elements and dynamics that are fundamental to industrial separation methods and transport processes.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Even Fall

CHS6509 - Advanced Forensic Microscopy

Course Title
Advanced Forensic Microscopy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. In-depth description of microscopic techniques (from stereoscope to PLM to SEM), micro-spectroscopy (from polarization to absorption, emission, vibrational spectroscopy to EDS) and sample analysis.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Occasional
CHS6513 - Quality Assurance for Forensic Scientists

Course Title
Quality Assurance for Forensic Scientists

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into M.S. Forensic Science program or C.I.

Course Description
Principles and concepts of quality assurance for forensic scientists. Includes a study of national analytical and accreditation standards.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Fall

CHS6535 - Forensic Molecular Biology

Course Title
Forensic Molecular Biology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PCB 4524, graduate standing of C.I.; and must have successfully completed undergraduate courses in statistics and biology

Course Description
Procedures for recovering and typing DNA from evidentiary materials and the interpretation of data.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Fall
CHS6535L - Forensic Analysis of Biological Materials

Course Title
Forensic Analysis of Biological Materials

Credits Hours
3

Lab/Studio/Field Work Hours
6

Prerequisites
- Complete all of the following
- Complete the following:
  - CHS6545 - Forensic Analysis of Explosives (3)
  - Course Not Found
- Or C.I. and satisfaction of biology requirements.

Course Description
A laboratory course for forensic molecular biologists covering the procedures for recovering and typing DNA from evidentiary materials.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Even Spring

CHS6536 - Population Genetics and Genetic Data

Course Title
Population Genetics and Genetic Data

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I. and must have successfully completed undergraduate courses in statistics and biology.

Course Description
Analysis of laboratory derived DNA data and how they can be applied in an occupational context.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Fall
CHS6545 - Forensic Analysis of Explosives

Course Title
Forensic Analysis of Explosives

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into Forensic Science M.S. program or C.I.

Course Description
Modern analytical methods and protocols for the forensic analysis of low and high explosives. Analysis of pure materials and post-blast residues will be covered along with scene search and recovery protocols.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Odd Spring

CHS6546 - Forensic Analysis of Ignitable Liquids

Course Title
Forensic Analysis of Ignitable Liquids

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission into Forensic Science M.S. or C.I. Modern analytical methods and protocols for the forensic analysis of ignitable liquids. Ignitable liquid production as relates to ASTM classification, sampling methods, databases and modern methods of data analysis.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Even Spring
CHS6613 - Current Topics in Environmental Chemistry

Course Title
Current Topics in Environmental Chemistry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CHM 2045C, CHM 2046, or the equivalent of a BS in biological, molecular, chemical or engineering sciences, or C.I.

Course Description
Advanced principles of environmental chemistry, environmental law, current remediation technologies and industrial practices relating to the environment.

College
College of Sciences

Department
Department of Chemistry

Terms of Offering
Odd Spring

CHS6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Chemistry

CHS6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Chemistry
CHS6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Chemistry

CHS7919 - Research
Course Title
Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Chemistry

CHS7938 - Frontiers in Chemistry
Course Title
Frontiers in Chemistry
Credits Hours
1
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to the PhD Chemistry program or C.I.
Course Description
Chemistry research seminar addressing current challenges, trends and opportunities in the chemical sciences. May be used in the degree program a maximum of 3 times.
College
College of Sciences
Department
Department of Chemistry
Terms of Offering
Every Semester

CIS - Computer and Information Systems
CIS5256 - Software Development Leadership

**Course Title**
Software Development Leadership

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- COP 4331C and Computer Science major.

**Course Description**
The course teaches the concepts necessary to manage software projects successfully, with a focus on software quality, effective development practices, team dynamics, appropriate leadership style.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Fall

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CIS5730 - Blockchains and Smart Distributed Contracts

**Course Title**
Blockchains and Smart Distributed Contracts

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- COT 5840.

**Course Description**
Introduction to blockchains; consensus and decentralization mechanisms; symmetric and public key cryptography; bitcoin protocols and APIs; alternatives to bitcoins; smart contracts; Ethereum virtual machine; Solidity programming language; Web3 API; Hyperledger; scalability and other challenges of blockchain systems.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Fall
CIS5917 - Directed Research  
Course Title: Directed Research  
Credits Hours: 1 - 99  
College: College of Engineering and Computer Science  
Department: Department of Computer Science  

CIS5930 - Special Topics  
Course Title: Special Topics  
Credits Hours: 3  
College: College of Engineering and Computer Science  
Department: Department of Computer Science  

CIS5937 - SPECIAL TOPICS  
Course Title: SPECIAL TOPICS  
Credits Hours: 3  
College: College of Engineering and Computer Science  
Department: Department of Computer Science
CIS6206 - Electronic Discovery for Digital Forensics Professionals

Course Title
Electronic Discovery for Digital Forensics Professionals

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
CGS 5131 or C.I. This course will introduce experienced digital forensics students to legal and practical issues regarding electronic discovery, including legal requirements, technical solutions and practical aspects.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall

CIS6207 - The Practice of Digital Forensics

Course Title
The Practice of Digital Forensics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CGS 5131 and CNT 6418, or C.I.

Course Description
Application of digital scientific techniques to solve information assurance, forensic and legal problems.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
Fall

2021-2022 Graduate Catalog
CIS6386 - Operating Systems and File System Forensics

Course Title
Operating Systems and File System Forensics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CGS 5131 or C.I.

Course Description
In-depth coverage of computer forensics related issues associated with multiple operating systems, multiple file systems, and applications.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring

CIS6395 - Incident Response Technologies

Course Title
Incident Response Technologies

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Digital Forensics MS major or CDA 5106 or COT 5405.

Course Description
This course covers security incidents and intrusions. Topics include: identifying and categorizing incidents, responding to incidents, log analysis, network traffic analysis, and tools.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall
CIS6614 - Advanced Software Systems Security

Course Title
Advanced Software Systems Security

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CIS 4615.

Course Description
This course will cover various advanced topics on software threat modeling, secure software development life cycle, common security issues, and mitigations in modern software operation.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall

CIS6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

CIS6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science
CIS6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

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CIS7919 - Research

**Course Title**
Research

**Credits Hours**
1 - 99

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

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CJC - Criminal Justice Corrections

CJC5020 - Foundations of Corrections

**Course Title**
Foundations of Corrections

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Criminal Justice graduate program, graduate certificate, or C.I.

**Course Description**
Provides an overview of correctional process in U.S., including philosophical foundations and contemporary practices.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Occasional
CJC6135 - Seminar in Institutional Corrections

Course Title
Seminar in Institutional Corrections

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Criminal Justice Ph.D. Public Affairs (Criminal Justice track) Ph.D. program or C.I.

Course Description
This course will provide an overview and analysis of institutional corrections from an historical, philosophical, theoretical and empirical perspective.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Spring

CJC6165 - Seminar in Community Corrections

Course Title
Seminar in Community Corrections

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice Ph.D. program, Public Affairs (Criminal Justice track) Ph.D. program or C.I.

Course Description
Provides an overview and analysis of community-based punishment polices and practices, focusing on issues related to community-corrections programs, professionals, and role of community in controlling crime.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Summer
CJC6486 - Seminar in Correctional Effectiveness

Course Title
Seminar in Correctional Effectiveness

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice Ph.D. or Public Affairs (Criminal Justice track) Ph.D. program or C.I.

Course Description
Provides an overview and analysis of issues pertaining to correctional evaluation, focusing on the various effects of punishment on the offender, the criminal justice system, and society.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Fall

CJE - Criminal Justice Law Enforcement

CJE5021 - Foundations of Law Enforcement

Course Title
Foundations of Law Enforcement

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice graduate program, graduate certificate program, or C.I.

Course Description
Examines police role in modern society and law enforcement policy.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional
CJE5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Criminal Justice

CJE6120 - Personnel Management in Criminal Justice Organizations

Course Title
Personnel Management in Criminal Justice Organizations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• Admission to M.S. in Criminal Justice or C.I.

Course Description
This course provides a general overview of the issues and problems in the management of criminal justice agencies with an emphasis on best practices.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Spring
CJE6320 - Seminar in Police Administration

Course Title
Seminar in Police Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice Ph.D. or Public Affairs (Criminal Justice track) Ph.D. program or C.I.

Course Description
Administration and operational task of police organization, including exercise and control of discretion, hierarchies and divisions of labor, incentive structures, and evaluation of effectiveness and efficiency of police operations.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Fall

CJE6456 - Seminar in Policing Urban Communities

Course Title
Seminar in Policing Urban Communities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into the Criminal Justice Ph.D. or Public Affairs (Criminal Justice track) Ph.D. programs or C.I.

Course Description
This course concentrates on the urban communities of the United States and delves into the issues that affect the type of policing that occurs in these locales.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Spring
CJE6688 - Cyber Crime and Criminal Justice

Course Title
Cyber Crime and Criminal Justice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
♦ CCJ 5015 or C.I.

Course Description
Deals with the problem of cyber crime and the criminal use of the Internet. Includes investigation, enforcement and legal issues.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional

CJE6706 - Seminar in Police Socialization and Culture

Course Title
Seminar in Police Socialization and Culture

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
♦ Admission to the Criminal Justice Ph.D. or Public Affairs (Criminal Justice track) program or C.I.

Course Description
This course examines the origins and correlates of socialization and culture operating within the internal and external environments of policing.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Fall
CJE6718 - Proseminar in Criminal Justice

Course Title
Proseminar in Criminal Justice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
C.I.

Course Description
Capstone experience for the Criminal Justice Professional track. Reviews and integrates the six other courses in the core curriculum.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Fall

CJE6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Criminal Justice

CJE6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Criminal Justice

CJJ - Criminal Justice Juvenile Justice
CJJ6020 - The Juvenile Justice System

Course Title
The Juvenile Justice System

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice graduate program, graduate certificate, or C.I.

Course Description
This course will focus on the development and philosophy of the Juvenile Justice System; the measurement of delinquency, theories and correlates of delinquency and prevention.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Fall

CJJ6124 - Seminar in Prosecuting Juvenile Offenders

Course Title
Seminar in Prosecuting Juvenile Offenders

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admitted to Criminal Justice Ph.D. Program or Public Affairs (Criminal Justice track) Ph.D. program or C.I.

Course Description
This course will provide students with an advanced understanding of the theory and research surrounding the major decision-making stages in the juvenile court process.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Summer
CJJ6126 - Seminar in Juvenile Corrections

**Course Title**
Seminar in Juvenile Corrections

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admitted to Criminal Justice Ph.D. or Public Affairs (Criminal Justice track) Ph.D. program or C.I.

**Course Description**
This course will focus on community and institutional correctional settings in juvenile justice, evidence-based screening and assessment techniques, and juvenile justice interventions and their effectiveness.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Fall

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CJJ6546 - Seminar in Policing and Prevention in the Juvenile Justice System

**Course Title**
Seminar in Policing and Prevention in the Juvenile Justice System

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admitted to Criminal Justice Ph.D. program or Public Affairs Ph.D. Criminal Justice track or C.I.

**Course Description**
This course will provide students with an advanced understanding of the initial stages of the juvenile system and the strategies used to intervene.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Spring

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CJL - Criminal Justice Law and Process
CJL5049 - International Perspectives on Law and Justice

**Course Title**
International Perspectives on Law and Justice

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing or C.I. Examination of the legal and criminal justice systems of other nations and territories through lecture, seminar, research and field visits.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Occasional

CJL6520 - American Criminal Courts

**Course Title**
American Criminal Courts

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Criminal Justice graduate program or C.I.

**Course Description**
Critically study and evaluate day-to-day discretionary decisions of prosecutors, judges and defense attorneys and identify how their decisions shape the broad discretionary power this institution yields.

**College**
College of Community Innovation and Education

**Department**
Department of Criminal Justice

**Terms of Offering**
Odd Fall
CJL6568 - Law and Social Control

Course Title
Law and Social Control

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Criminal Justice graduate program, graduate certificate, or C.I.

Course Description
This course will examine the types of behavior the state has sought to control and the means employed to exert such control.

College
College of Community Innovation and Education

Department
Department of Criminal Justice

Terms of Offering
Occasional

CJT - Criminal Justice Technology

CJT5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
Department of Criminal Justice

CJT6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
Department of Criminal Justice

CLA - Classical and Ancient Studies
CLA5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Philosophy

CLA5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Philosophy

CLP - Clinical Psychology

CLP5166 - Advanced Abnormal Psychology

Course Title
Advanced Abnormal Psychology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
Consideration of classification, causation, management and treatment of emotional disorders. Review of theories and research in the field. Lecture/Laboratory.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional
CLP5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology

CLP5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Psychology

CLP6181 - Psychological Theories of Substance Abuse Treatment
Course Title
Psychological Theories of Substance Abuse Treatment
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
✓ Acceptance to the Clinical Psychology Master's or PhD programs or C.I.
Course Description
Focuses on the mechanisms responsible for, and the treatment of, substance tolerance and dependence.
College
College of Sciences
Department
Department of Psychology
Terms of Offering
Fall
CLP6191 - Multicultural Psychotherapy

Course Title
Multicultural Psychotherapy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and C.I.

Course Description
The theories, issues, and techniques of counseling within a multicultural environment.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional

CLP6195C - Introduction to Psychotherapy

Course Title
Introduction to Psychotherapy

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- Graduate admission and C.I.

Course Description
Counseling theory with experimental lab component including practice in specific techniques in counseling.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Odd Spring

Current Fee Per Student
$10.00
CLP6321 - Psychotherapy in Community Settings

**Course Title**
Psychotherapy in Community Settings

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Acceptance to Clinical Psychology PhD program or C.I.

**Course Description**
Survey of the community agencies that deliver mental health/counseling services. Includes on-site visits to local agencies. This course is intended for the PhD in Clinical Psychology; in certain instances graduate students in other programs may enroll.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional

CLP6441C - Individual Psychological Assessment I

**Course Title**
Individual Psychological Assessment I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Graduate admission and C.I.

**Course Description**
Theory and techniques of psychological assessment with emphasis on intake interviewing, cognitive and personality assessment, and report writing.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Fall

**Current Fee Per Student**
$20.00
CLP6449C - Career and Lifestyle Assessment

**Course Title**
Career and Lifestyle Assessment

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- CLP 6441C or C.I.

**Course Description**
Application and theory of obtaining, integrating, and utilizing career, vocational, and lifestyle assessment in clinical settings such as rehabilitation centers, mental health centers, and hospitals.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Every Semester

**Current Fee Per Student**
$15.00

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CLP6457C - Group Psychotherapy

**Course Title**
Group Psychotherapy

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Graduate admission and C.I.

**Course Description**
Group counseling: theory and practice. Experiential group laboratory.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional
CLP6459C - Human Sexuality, Marriage, and Sex Therapies

**Course Title**
Human Sexuality, Marriage, and Sex Therapies

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Graduate admission, and C.I.

**Course Description**
Human sexuality, theory and practice of specific techniques of marriage and sex therapy.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional

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CLP6460C - Introduction to Child, Adolescent, and Family Therapies

**Course Title**
Introduction to Child, Adolescent, and Family Therapies

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Graduate admission, and C.I.

**Course Description**
Theories and practices of child, adolescent and family therapies. Includes practice in specific techniques.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional
CLP6461 - Cognitive-Behavioral Therapy

Course Title
Cognitive-Behavioral Therapy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Must be enrolled in the Clinical Psychology PhD Program.

Course Description
Covers theory, outcomes, and methods of cognitive-behavioral therapy. Includes discussion of variations of CBT, as targeted to particular psychiatric disorders.

College
College of Sciences

Department
Department of Psychology

CLP6527c - Measurement, Research Design, and Statistical Analysis in Clinical Psychology I

Course Title
Measurement, Research Design, and Statistical Analysis in Clinical Psychology I

Credits Hours
4

Lab/Studio/Field Work Hours
0

Corequisites
- Admission into the Master's in Clinical Psychology Thesis Track or instructor permission.

Course Description
This course provides an overview of approaches to research design, statistical analysis, and measurement in the field of clinical psychology.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Fall
CLP6528C - Measurement, Research Design, and Statistical Analysis in Clinical Psychology II

Course Title
Measurement, Research Design, and Statistical Analysis in Clinical Psychology II

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Master's in Clinical Psychology, Research/Thesis Track, CLP6527C, or instructor permission.

Course Description
This course is a continuation of CLP 6527C, and CLP 6528C is a prerequisite. Additional topics are covered in the areas of research design, statistical analysis, and measurement in the field of clinical psychology.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Fall

CLP6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Psychology

CLP6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Psychology
CLP6932 - Ethical and Professional Issues in Mental Health Practices

**Course Title**
Ethical and Professional Issues in Mental Health Practices

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate admission, C.I.

**Course Description**
Examination of codes of ethics, laws, and professional standards in the mental health field.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional

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CLP6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional
CLP6949 - Predoctoral Internship

Course Title
Predoctoral Internship

Credits Hours
1

Lab/Studio/Field Work Hours
40

Prerequisites
Acceptance to Clinical Psychology Ph.D. program or C.I.

Course Description
Placement in an approved setting on a full-time basis for one calendar year. Required of all clinical Ph.D. students. This course is intended for the Ph.D. in Clinical Psychology, in certain instances graduate students in other programs may enroll.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Every Semester

CLP7125 - Lifespan Psychopathology

Course Title
Lifespan Psychopathology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Admission to Clinical Psychology PhD or C.I.

Course Description
Clinical presentation and etiological theories of psychological disorders across the lifespan.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional
CLP7136 - Child Psychopathology

Course Title
Child Psychopathology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Clinical Psychology PhD or C.I.

Course Description
Clinical presentation and etiological theories of psychological disorders in children and adolescents.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Fall

CLP7145C - Introduction to Clinical Psychology and Psychotherapy

Course Title
Introduction to Clinical Psychology and Psychotherapy

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Clinical Psychology Ph.D. program or C.I.

Course Description
A historical look at clinical psychology, psychotherapy, and clinical research. May be used in the degree program a maximum of 2 times only when course content is different.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Spring
Fall
CLP7378 - Proseminar in Professional Psychology

**Course Title**
Proseminar in Professional Psychology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Clinical Psychology PhD or C.I.

**Course Description**
Survey of psychologists' roles in administration, supervision, and treatment development.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Odd Spring

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CLP7429 - Clinical Neuropsychological Assessment

**Course Title**
Clinical Neuropsychological Assessment

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Clinical Psychology Ph.D. program or C.I.

**Course Description**
Provides foundational knowledge in clinical neuropsychological assessment, with a focus on assessment of adult clinical patients by doctoral-level clinical psychologists.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional
**CLP7446C - Child Psychological Assessment**

**Course Title**
Child Psychological Assessment

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission to Psychology Ph.D. Clinical track or C.I.

**Course Description**
Emphasis is placed on theories and techniques of psychological assessment with children and adolescents. Primary emphasis on interviewing, observation skills, and administering intelligence tests.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Spring

**CLP7447C - Clinical Psychological Assessment**

**Course Title**
Clinical Psychological Assessment

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission to Psychology PhD Clinical track or C.I.

**Course Description**
Theory and techniques of adult psychological assessment with emphasis on intake interviewing, cognitive and personality assessment, and report writing.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional
CLP7474 - Child Empirically Supported Treatments

**Course Title**
Child Empirically Supported Treatments

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Clinical Psychology PhD or C.I.

**Course Description**
Empirically supported psychological and pharmacological treatments for children and adolescents.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Odd Spring

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CLP7494 - Empirically Supported Psychotherapies

**Course Title**
Empirically Supported Psychotherapies

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Clinical Psychology PhD or C.I.

**Course Description**
Empirically supported psychological and pharmacological treatment across the lifespan.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional
CLP7623 - Ethical and Professional Issues in Clinical Psychology

**Course Title**
Ethical and Professional Issues in Clinical Psychology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Clinical Psychology PhD or C.I.

**Course Description**
APA Code of Ethics, relevant laws, and professional standards in clinical psychology.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Fall

CLP7919 - Research

**Course Title**
Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Psychology

CLP7939 - Affective Neuroscience

**Course Title**
Affective Neuroscience

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Advanced recent knowledge on the topic of affective neuroscience. We will review and discuss recent scientific journal articles across a range of subtopics related to the neuroscience of emotion. We will include both healthy and disordered functioning of the neural and hormonal systems that relate to a wide range of emotions.

**College**
College of Sciences

**Department**
Department of Psychology
CLP7942L - Supervision Practicum

Course Title
Supervision Practicum

Credits Hours
1

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to Clinical Psychology Ph.D. program or C.I.

Course Description
Advanced practicum focused on learning in didactic and experiential effective clinical supervision. Graded S/U. May be used in the degree program a maximum of 2 times.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Every Semester

CLP7943C - Clinical Practicum

Course Title
Clinical Practicum

Credits Hours
1 - 12

Lab/Studio/Field Work Hours
12-Jan

Prerequisites
- Acceptance to Clinical Psychology Ph.D. program or C.I.

Course Description
Clinical activities performed in an approved university or community setting under faculty/staff supervision. This course is intended for the Ph.D. in Clinical Psychology, in certain instances graduate students in other programs may enroll.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Every Semester

Current Fee Per Student
$15.00

CNT - Computer Networks

2021-2022 Graduate Catalog
CNT5008 - Computer Communication Networks Architecture
Course Title
Computer Communication Networks Architecture
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EEL 4768C.
Course Description
Computer networks, layers, protocols and interfaces, local area networks networking.
College
College of Engineering and Computer Science
Department
Department of Computer Science
Terms of Offering
Fall

CNT5410L - Cyber Operations Lab
Course Title
Cyber Operations Lab
Credits Hours
3
Lab/Studio/Field Work Hours
3
Course Description
Programming, software, and hardware components for cybersecurity operations related to system administration, firewalls, cyber attack, cyber defense, security, secure architectures at network and computer level.
College
College of Engineering and Computer Science
Department
Department of Computer Science
Terms of Offering
Summer
CNT5805 - Network Science
Course Title
Network Science
Credits Hours
3
Lab/Studio/Field Work Hours
0
Course Description
Undergraduate degree in CS, EE, or CpE. The emerging science of complex networks and their applications. Focus will be on algorithms, mathematical theories, and computational methods that analyze complex networks and predict their behavior.

College
College of Engineering and Computer Science
Department
Department of Computer Science
Terms of Offering
Even Fall

CNT5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Computer Science
CNT6418 - Computer Forensics II

Course Title
Computer Forensics II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CGS 5131 or C.I.

Course Description
Computer network protocols and security models, cryptography, network intrusion detection and prevention, digital evidence collection and legal issues involved in network forensics, wireless security and forensics.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring

Current Fee Per Student
$50.00

CNT6519 - Wireless Security and Forensics

Course Title
Wireless Security and Forensics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Digital Forensics MS major or CDA 5106 or COT 5405.

Course Description
Advanced topics in wireless network security, security management, cryptography, wireless forensics and related areas.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall
CNT6707 - Advanced Computer Networks

Course Title
Advanced Computer Networks

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CNT 5008 or C.I.

Course Description
Recent advances in computer networks, overlay and multihomed networks, routing and multicasting, Internet friendly protocols, congestion control, QoS-differentiated services, cellular networks.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring

CNT6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

CNT7919 - Doctoral Research

Course Title
Doctoral Research

Credits Hours
0 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

COM - Communications
COM5312 - Introduction of Communication Research

Course Title
Introduction of Communication Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Provides the foundational knowledge and skills for conducting research in graduate Communication coursework including both quantitative and qualitative approaches.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Every Semester

COM5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Nicholson School of Communication and Media
COM5932 - Topics in Communication Theory and Research

**Course Title**
Topics in Communication Theory and Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to Communication M.A. program or C.I. In-depth examination of a particular area of communication theory and research, emphasizing major developments, current uses, implications for research, and overall impact on the field.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Occasional

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COM5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media
COM6008 - Proseminar in Communication

Course Title
Proseminar in Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Admission to the Communication M.A. program or C.I.

Course Description
Introduction to the field of communication at the graduate level emphasizing skills and practices needed to succeed at the graduate level and as a professional in the field.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring
Fall

COM6046 - Interpersonal Communication

Course Title
Interpersonal Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Graduate status.

Course Description
Survey of theoretical perspectives in interpersonal communication.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring
COM6047 - Interpersonal Support in the Workplace

Course Title
Interpersonal Support in the Workplace

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Interpersonal theories relevant to understanding marginalization and building supportive relationships in the workplace.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional

COM6048 - Communication in Close Relationships

Course Title
Communication in Close Relationships

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Classic and contemporary theory of communication in close relationships.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional
COM6121 - Communication Management

Course Title
Communication Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Analysis and development with reference to particular media. Organizational theory, structure, and behavior. Management principles and operations.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional

COM6145 - Organizational Communication

Course Title
Organizational Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Organizational communication theory, perspectives, methods and current issues that reflect the centrality of communication processes in constituting organizing and organizations.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional
COM6303 - Qualitative Research Methods in Communication

Course Title
Qualitative Research Methods in Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Communication M.A. or C.I.

Course Description
Examination of qualitative methods in communication with emphasis on interviewing, ethnography, focus groups, observational methods and data interpretation.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring
Fall

COM6304 - Quantitative Research Methods in Communication

Course Title
Quantitative Research Methods in Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Communication M.A. program or C.I.

Course Description
Examination of quantitative methods in communication. Topics include experimental research design, sampling procedures, survey design, content analysis, and introduction to data analysis.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Every Semester
COM6401 - Communication Theory

Course Title
Communication Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Examination and critical analysis of the major theories of communication processes as well as their underlying metatheoretical foundations.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring

COM6425 - Symbolism in Terrorism

Course Title
Symbolism in Terrorism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Communication M.A. program or C.I.

Course Description
Skills for, and approaches to, analyzing communication strategies used by terrorists in pursuing their long-term objectives and goals.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional
COM6463 - Studies in Intercultural Communication

Course Title
Studies in Intercultural Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Comprehensive survey of methodological and theoretical issues and concepts in intercultural and cross-cultural research.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional

COM6466 - Persuasion in the Media

Course Title
Persuasion in the Media

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
The underlying persuasive messages about cultural norms and values that are communicated through mass media channels such as movies, music, etc.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional
COM6467 - Studies in Persuasion

Course Title
Studies in Persuasion

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status.

Course Description
Analysis of research and major theoretical perspectives in persuasive communication.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional

COM6468 - Communication and Conflict

Course Title
Communication and Conflict

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Research seminar in the study of communication and conflict.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional
COM6525 - Communication Strategy and Planning

**Course Title**
Communication Strategy and Planning

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- C.I.

**Course Description**
Focus on the creation of communication strategies in conjunction with overall organizational goals, with emphasis on decision making and management.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Occasional

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COM6535 - Communication Campaigns

**Course Title**
Communication Campaigns

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Communication M.A. program or Strategic Communication Ph.D. program or C.I.

**Course Description**
This seminar examines the strategies and effects of public communication campaigns with a focus on foundational theory and empirical research.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Occasional
COM6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Sciences
Department
Nicholson School of Communication and Media

COM6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Nicholson School of Communication and Media

COM6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Nicholson School of Communication and Media

COM6949 - Cooperative Education in Communications
Course Title
Cooperative Education in Communications
Credits Hours
0 - 99
College
College of Sciences
Department
Nicholson School of Communication and Media
**COM7025 - Health Communication**

**Course Title**
Health Communication

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Strategic Communication Ph.D. or C.I.

**Course Description**
Examines issues of healthcare provider-patient communication, health literacy, public health, health in other cultures, ethics in health communication, and mass media health messages.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Fall

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**COM7227 - Seminar in Health Communication**

**Course Title**
Seminar in Health Communication

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- COM 7025, admission to Strategic Communication Ph.D. program, or C.I.

**Course Description**
A seminar-format advanced course designed to explore in depth a specific area of focus in health communication.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Spring
COM7236 - Seminar in Risk and Crisis Communication

Course Title
Seminar in Risk and Crisis Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COM 7815, admission to Strategic Communication Ph.D. program, or C.I.

Course Description
Deletion Test. An advanced course designed to explore in depth a specific area of focus in risk and crisis communication selected by the instructor.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring

COM7325 - Seminar in Research Methods

Course Title
Seminar in Research Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Strategic Communication Ph.D. program or C.I.

Course Description
In-depth examination of a particular quantitative or qualitative research method in communication with a focus on producing a publishable study.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring
COM7464 - Theory Building for Strategic Communication

**Course Title**
Theory Building for Strategic Communication

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Strategic Communication Ph.D. program or C.I.

**Course Description**
Required for communication doctoral students and is designed for all graduate students who have an interest in paradigmatic issues related to communication theory construction.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Spring

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COM7528 - Communication and Community Engagement

**Course Title**
Communication and Community Engagement

**Credits Hours**
1 - 99

**Prerequisites**
- Admission to Strategic Communication Ph.D. program or C.I.

**Course Description**
Project based on a partnership with a community organization.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Fall
COM7529 - Strategic Communication
Course Title
Strategic Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Strategic Communication Ph.D. program or C.I.

Course Description
A survey of theories, principles, and processes of strategic communication in diverse contexts including advertising, public relations, health, crisis, instruction, persuasion, journalism, and organizational communication.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

COM7745 - Current Issues in Communication
Course Title
Current Issues in Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Strategic Communication Ph.D. program or C.I.

Course Description
In-depth examination of a particular area of communication theory and research, emphasizing major developments, current uses, implications for research, and overall impact on the field.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring
Fall
COM7815 - Risk Communication

Course Title
Risk Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Strategic Communication Ph.D. program or C.I.

Course Description
A message-centered approach to the study of risk communication. The course establishes risk communication as a distinct sub-discipline within the communication discipline.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

COM7821 - Instructional Communication in Strategic Contexts

Course Title
Instructional Communication in Strategic Contexts

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Strategic Communication Ph.D. program or C.I.

Course Description
Instructional communication examines communication that occurs when instructing others. This course will include strategic instructional communication theories, research and best practices.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall
COM7920 - Doctoral Colloquium

Course Title
Doctoral Colloquium

Credits Hours
0 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Strategic Communication Ph.D. program of C.I.

Course Description
Focuses on progression through the NSCM Ph.D. degree program, the research process, guidance on the academic profession, and written and oral presentation of scholarly research.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

COP - Computer Programming

COP5021 - Program Analysis

Course Title
Program Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COP 4020 and COT 4210 or C.I.

Course Description
Static analysis of programs including theoretical and practical limitations, data flow analysis, abstract interpretation, and type and effect systems. Tools to automate program analysis.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Even Spring
COP5537 - Network Optimization

Course Title
Network Optimization

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Techniques for modeling complex, interconnected systems as networks; optimization with graph theory; algorithms, data structures, and computational complexity; statistical methods for studying large, evolving networks.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall

COP5611 - Operating Systems Design Principles

Course Title
Operating Systems Design Principles

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COP 4600.

Course Description
Structure and functions of operating systems, process communication techniques, high-level concurrent programming, virtual memory systems, elementary queuing theory, security, distributed systems, case studies.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
COP5621 - Compiler Construction

**Course Title**
Compiler Construction

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
COP4020 and COT 4210. Techniques in the design and implementation of compilers. Optimization, code generation, error recovery, attributed grammars. A project is required.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Odd Fall

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COP5711 - Parallel and Distributed Database Systems

**Course Title**
Parallel and Distributed Database Systems

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- COP 4710.

**Course Description**
Storage manager, implementation techniques for parallel DBMSs, distributed DBMS architectures, distributed database design, query processing, multidatabase systems.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Occasional
COP5818 - Full Stack Development for FinTech

**Course Title**
Full Stack Development for FinTech

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Corequisites**
- COT 5480.

**Course Description**
Fundamentals of web technologies; front-end design using HTML5, CSS3 and ReactJS; SQL and NoSQL databases; back-end design.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Fall

COP5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

COP5937 - ST: Hacking For Defense (H4D): Solving National Security Issues with the Lean Launchpad

**Course Title**
ST: Hacking For Defense (H4D): Solving National Security Issues with the Lean Launchpad

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Teaches entrepreneurship and provides opportunity for teams to rapidly build products and services that solve real problems for the Defense (DoD) and Intelligence Community (IC).

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science
COP6526 - Parallel and Cloud Computation

**Course Title**
Parallel and Cloud Computation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- COP 5711.

**Course Description**
The course introduces students to parallel computing across the hardware-software stack. Special emphasis is placed on parallel programming using emerging architectures and technologies.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Fall

COP6616 - Multicore Programming

**Course Title**
Multicore Programming

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- COT 5405 or C.I.

**Course Description**
The course focuses on the computational principles, algorithms, and tools for multi-processor programming. Topics of study include programming models and frameworks, lock-free synchronization, transactional memory.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Occasional
COP6730 - Transaction Processing

**Course Title**
Transaction Processing

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- COP 4710.

**Course Description**
Transaction models, transaction monitors, isolation concepts and lock manager implementation, log manager, transaction manager, file and buffer management, client-server computing.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Occasional

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COP6731 - Advanced Database Systems

**Course Title**
Advanced Database Systems

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- COP 5711.

**Course Description**
Selected topics concerning object-oriented databases, multimedia databases, active databases, temporal databases, spatial databases, and information systems.

**College**
College of Engineering and Computer Science

**Department**
Department of Computer Science

**Terms of Offering**
Occasional
COP6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

COP6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

COP6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Computer Science

COP7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science
COP7939 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Computer Science

COT - Computer Theory

COT5405 - Design and Analysis of Algorithms

Course Title
Design and Analysis of Algorithms

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COT 4210.

Course Description
Classification of algorithms, e.g., recursive, divide-and-conquer, greedy, etc. Data Structures and algorithm design and performance. Time and space complexity analysis.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring
Fall

2021-2022 Graduate Catalog
COT5480 - Computational Methods in FinTech I

Course Title
Computational Methods in FinTech I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Fundamentals of data structures; definition and analysis of algorithms; basic classes of algorithms; graph algorithms; algorithms for identity, privacy, anonymity and automation.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Fall

COT5570 - Introductory Mathematics for Modeling and Simulation

Course Title
Introductory Mathematics for Modeling and Simulation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Preparatory analytical survey of material for the M&S core Math Foundations course: algebra, discrete mathematics, and basic probability.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Fall
COT5600 - Quantum Computing

Course Title
Quantum Computing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COP 3503C.

Course Description
This course introduces basic concepts in quantum circuits and quantum algorithms.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring

COT5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

COT5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Computer Science
COT6410 - Computational Complexity

Course Title
Computational Complexity

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
-COT 5405.

Course Description
Properties of algorithms, computational equivalence of machines, time-space complexity measures, examples of algorithms of different complexity, classification of algorithms, classes P and NP.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional

COT6417 - Algorithms on Strings and Sequences

Course Title
Algorithms on Strings and Sequences

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
-COT 5405 or C.I.

Course Description
Study of algorithms for exact and approximate string pattern matching, sequence alignment and multiple string alignment.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional
COT6481 - Computational Methods in FinTech II

Course Title
Computational Methods in FinTech II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COT 5480.

Course Description
Advanced data structures; advanced algorithms; automated accounting, risk management and tax automation; computer architectures and applications to financial technology; parallel programming on multiple processors and GPUs.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Spring

COT6505 - Computational Methods/Analysis I

Course Title
Computational Methods/Analysis I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COT 5405.

Course Description
Analysis of direct and iterative solutions of systems of linear equations, eigenvalues and vectors and roots of nonlinear equations, error analysis.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional

2021-2022 Graduate Catalog
COT6571 - Mathematical Foundations of Modeling and Simulation

Course Title
Mathematical Foundations of Modeling and Simulation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COT 5570 or equivalent background.

Course Description
Provides analytical background material relevant to the M&S program. Emphasize critical thinking and problem solving and conducts survey probability and statistics, linear algebra and calculus.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Spring

COT6602 - Introduction to Quantum Information Theory

Course Title
Introduction to Quantum Information Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COT 5600 Quantum Computing.

Course Description
Basic concepts in quantum information theory and quantum error correcting codes.

College
College of Engineering and Computer Science

Department
Department of Computer Science

Terms of Offering
Occasional
COT6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

COT6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Computer Science

COT6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Computer Science

CPO - Comparative Politics

CPO5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
School of Politics, Security, and International Affairs
CPO5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
School of Politics, Security, and International Affairs

CPO6038 - Political Development

Course Title
Political Development

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to graduate degree-seeking program, or C.I. Analyze the political determinants of economic development and the economic causes of political outcomes such as democratization.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
CPO6056 - Politics of Authoritarian Regimes

Course Title
Politics of Authoritarian Regimes

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to a graduate degree-seeking program or C.I.

Course Description
Introduction to the politics of authoritarian regimes. Review of academic work on how autocrats stay in power and the characteristics of political contention in authoritarian states.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

CPO6058 - Revolution and Political Violence

Course Title
Revolution and Political Violence

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Studies or C.I.

Course Description
Seminar addresses theory and analytical models of political revolutions and insurgencies with cases, especially Third World.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
**CPO6091 - Seminar in Comparative Politics**

**Course Title**
Seminar in Comparative Politics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to a graduate degree-seeking program or C.I.

**Course Description**
Introduction to the theory and methodology of comparative politics, institutions, and contextual factors of selected political systems such as Canada, European, and Third World nations.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Even Spring

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**CPO6206 - Comparative Politics of Africa**

**Course Title**
Comparative Politics of Africa

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to a graduate degree-seeking program or C.I.

**Course Description**
Explores the conceptual, theoretical, methodological issues in the study of African political systems.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Occasional
CPO6307 - Issues in Latin American Politics

Course Title
Issues in Latin American Politics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Examines and evaluates major issues in Latin American politics employing political science theories and methodologies.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

CPO6407 - Comparative Politics of the Middle East

Course Title
Comparative Politics of the Middle East

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or consent of the instructor.

Course Description
A study of issues in Middle Eastern politics as studied in comparative politics including political regimes, political economy, political violence, environmental politics, and gender politics.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
CPO6446 - Comparative Political Parties

Course Title
Comparative Political Parties

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Theories of the formation, structure, organization, and behavior of political parties as well as theories of political party systems.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

CPO6729 - Global Security in the Age of Migration

Course Title
Global Security in the Age of Migration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Explore migration as the outcome and cause of security concerns, while introducing students to theories of migration, conflict, security, and border control policies.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits Hours</th>
<th>Lab/Studio/Field Work Hours</th>
<th>Prerequisites</th>
<th>Course Description</th>
<th>College</th>
<th>Department</th>
</tr>
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<td>CPO6776</td>
<td>Comparative Rising Powers</td>
<td>3</td>
<td>0</td>
<td>Admission to graduate degree-seeking program or C.I..</td>
<td>The course examines key contemporary rising powers in Eurasia: China, India, and Russia. It focuses on a comparative analysis of the nature of their rise.</td>
<td>College of Sciences</td>
<td>School of Politics, Security, and International Affairs</td>
</tr>
<tr>
<td>CPO6909</td>
<td>Research Report</td>
<td>1 - 99</td>
<td></td>
<td></td>
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<td>College of Sciences</td>
<td></td>
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<tr>
<td>CPO6918</td>
<td>Directed Research</td>
<td>1 - 99</td>
<td></td>
<td></td>
<td></td>
<td>College of Sciences</td>
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</tbody>
</table>
CPO6938ST2 - Special Topics in Comparative Politics: Politics of Authoritarian Regimes

Course Title
Special Topics in Comparative Politics: Politics of Authoritarian Regimes

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Introduction to the politics of authoritarian regimes. Review of academic work on how autocrats stay in power and the characteristics of political contention in authoritarian states.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

CRW - Creative Writing

CRW5130 - Form and Theory in Creative Writing

Course Title
Form and Theory in Creative Writing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Admission to Creative Writing MFA or C.I.

Course Description
Formal and theoretical study of creative writing of given genre (poetry, short fiction, etc). May be used in the degree program a maximum of 3 times.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional
CRW5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

CRW5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of English

CRW5948C - Creative Writing Service Learning
Course Title
Creative Writing Service Learning
Credits Hours
3
Lab/Studio/Field Work Hours
1
Prerequisites
- Admission to Creative Writing MFA or C.I.
Course Description
On-site experience leading and sharing creative writing in community settings. May be used in the degree program a maximum of 3 times.
College
College of Arts and Humanities
Department
Department of English
Terms of Offering
Occasional
CRW6025 - Advanced Graduate Writing Workshop

Course Title
Advanced Graduate Writing Workshop

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Creative Writing MFA and C.I.

Course Description
Writing and revising in one established form. Advanced Graduate Writing Workshop may be taken five times (for a total of 15 hours) in order to produce a book-length manuscript (fiction, poetry, or other genre). May be used in the degree program a maximum of 5 times.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Spring
Fall

CRW6720 - Professional Development in Creative Writing

Course Title
Professional Development in Creative Writing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Professional development lectures, discussions, and hands-on activities to assist graduate students in preparing for successful careers in writing, editing/publishing, and teaching.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Fall
CRW6721 - Literary Journal Editing

Course Title
Literary Journal Editing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Creative Writing MFA program or C.I.

Course Description
Experiential-learning course. Students explore the history and current issues in literary publishing and participate in editing and producing an existing national journal published by the English department.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional

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CRW6806C - Teaching Creative Writing

Course Title
Teaching Creative Writing

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- Graduate standing in MFA in Creative Writing program or C.I.

Course Description
Addresses trends in creative writing pedagogy, workshop alternatives, course design, classroom management, role of creative writing in academia.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Fall
CRW6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

CRW6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

CRW6920 - Fiction Workshop
Course Title
Fiction Workshop
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
• Admissions to the MFA Creative Writing Program and C.I.
Course Description
Examination of fiction with an emphasis on the development of individual styles, writing and revising and preparing for publication.
College
College of Arts and Humanities
Department
Department of English
Terms of Offering
Occasional
CRW6921 - Multi-Genre Workshop
Course Title
Multi-Genre Workshop

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admissions to the MFA Creative Writing Program or C.I.

Course Description
Examination of two or more genres with an emphasis on the development of individual styles, writing and revising and preparing for publication.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Spring
Fall

CRW6922 - Novel Workshop
Course Title
Novel Workshop

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admissions to the MFA Creative Writing Program or C.I.

Course Description
Examination of the novel with an emphasis on the development of individual styles, writing and revising and preparing for publication.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Spring
Fall
CRW6923 - Nonfiction Workshop

Course Title
Nonfiction Workshop

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admissions to the MFA Creative Writing Program or C.I.

Course Description
Examination of creative nonfiction with an emphasis on the development of individual styles, writing and revising and preparing for publication.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Spring
Fall

CRW6924 - Poetry Workshop

Course Title
Poetry Workshop

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admissions to the MFA Creative Writing Program or C.I.

Course Description
Examination of poetic forms with an emphasis on the development of individual styles, writing and revising and preparing for publication.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Spring
Fall
CRW6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Arts and Humanities

**Department**
Department of English

CRW6946 - Internship

**Course Title**
Internship

**Credits Hours**
1 - 99

**Prerequisites**
- Instructor Consent Required

**College**
College of Arts and Humanities

**Department**
Department of English

**Terms of Offering**
Occasional

CRW6976 - Scholarship and Publication Models

**Course Title**
Scholarship and Publication Models

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Creative Writing MFA, graduate standing or C.I.

**Course Description**
Overview of thesis-writing process from proposal to defense, and possible subsequent publication.

**College**
College of Arts and Humanities

**Department**
Department of English

**Terms of Offering**
Occasional
CWR - Civil Water Resources

CWR5125 - Groundwater Hydrology
Course Title
Groundwater Hydrology
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
• CWR 4124C or C.I.
Course Description
Theories of groundwater movement, geological factors, analysis and design techniques, etc. Emphasis on practical considerations.
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering
Terms of Offering
Occasional

CWR5205 - Hydraulic Engineering
Course Title
Hydraulic Engineering
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
• CWR 4202C or C.I.
Course Description
Concepts of fluid mechanics and hydrodynamics applied to natural and man-made flow of intent to civil and environmental engineering.
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering
Terms of Offering
Occasional
CWR5515 - Numerical Methods in Civil and Environmental Engineering

Course Title
Numerical Methods in Civil and Environmental Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CWR 4202C or C.I.

Course Description
This course will present intermediate to advanced numerical methods theory and include code development and error assessment, while targeting civil and environmental engineering applications.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

CWR5545 - Water Resources Engineering

Course Title
Water Resources Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CWR 4120 or C.I.

Course Description
Systems identification and solution to complex water allocation problems, and other hydraulic engineering designs and operations using economic analysis and operations research techniques.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
CWR5634 - Water Resources in a Changing Environment

Course Title
Water Resources in a Changing Environment

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CWR 4120.

Course Description
To model and understand potential impact of climate change and human activities on hydriodic systems and various spatial and temporal scales.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Odd Fall

CWR5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering
CWR5935 - Water First Seminar Series

**Course Title**
Water First Seminar Series

**Credits Hours**
0

**Lab/Studio/Field Work Hours**
0

**Course Description**
This course will expose students to state-of-the-art interdisciplinary water and environmental research as well as real world applications. It will provide networking opportunities with potential collaborators and prospective employers at other academic institutions, industry partners, or government agencies. PhD students supervised by faculty in the water resources or environmental engineering groups will be encouraged to actively participate by presenting their thesis and dissertation research in the seminar series.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Spring
Fall

CWR5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering
CWR5999 - Coastal Systems Analysis

Course Title
Coastal Systems Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CWR 4120, CWR 4633C, GLY 4730 (Mar. Geol.), OCE 3008, or C.I

Course Description
Coastal features; drivers of coastal flooding; climate variability and change; numerical and statistical modeling of extremes; coastal flood risk, management and adaptation.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Even Fall

CWR6007 - Ecohydraulics

Course Title
Ecohydraulics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
CWR 5634 OR Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology or C.I. Sustainable and multi-objective management of rivers, shorelines and aquatic resources, this course investigates fundamental linkages between physical processes and ecological responses in engineered and natural systems.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Even Spring
CWR6102 - Advanced Hydrology

Course Title
Advanced Hydrology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CWR 4120C or C.I.

Course Description
Single site and regional frequency analysis; modeling hydrologic systems; lumped and distributed event models for urban and natural drainage basins; continuous simulation; real-time forecasting.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

CWR6126 - Groundwater Modeling

Course Title
Groundwater Modeling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CWR 5125.

Course Description
Review of contemporary computer-based groundwater flow models and their application to environmental engineering problems.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
CWR6235 - Open Channel Hydraulics  
**Course Title**  
Open Channel Hydraulics  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- CWR 4202C or C.I.  
**Course Description**  
Free surface flow studies by empirical and theoretical methods for the design, operation, and management of open channels.  
**College**  
College of Engineering and Computer Science  
**Department**  
Department of Civil, Environmental, and Construction Engineering  
**Terms of Offering**  
Occasional

CWR6236 - River Engineering and Sediment Transport  
**Course Title**  
River Engineering and Sediment Transport  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- CWR 4633C or C.I.  
**Course Description**  
River morphology and regime with stabilization and modification of river courses. Sediment transport including control methods and modeling.  
**College**  
College of Engineering and Computer Science  
**Department**  
Department of Civil, Environmental, and Construction Engineering  
**Terms of Offering**  
Occasional
CWR6535 - Modeling Water Resources Systems

Course Title
Modeling Water Resources Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CWR 4120 or C.I.

Course Description
Contemporary mathematical models for water quality and quantity considerations including computer-based hydraulic and hydrologic models.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

CWR6539 - Finite Elements in Surface Water Modeling

Course Title
Finite Elements in Surface Water Modeling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CWR 5515 or C.I.

Course Description
This course explores finite element techniques as applied to surface water modeling, introduces theory and applications, and develops means by which errors can be appraised.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
CWR6606 - Stochastic River Network Hydro-Geomorphology

Course Title
Stochastic River Network Hydro-Geomorphology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Odd Spring

CWR6660 - Water Policy, Planning and Governance

Course Title
Water Policy, Planning and Governance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CWR 4633C or C.I.

Course Description
This course deals with political, social, economic and administrative systems that affect the use, development, planning, and management of water resources at different levels.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Even Fall
CWR6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CWR6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CWR6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CWR7919 - Doctoral Research

Course Title
Doctoral Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

CYP - Communication Psychology
CYP5917 - Directed Research  
*Course Title*  
Directed Research  

**Credits Hours**  
1 - 99  

**College**  
College of Sciences  

**Department**  
Department of Psychology  

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CYP5937 - Special Topics  
*Course Title*  
Special Topics  

**Credits Hours**  
3  

**College**  
College of Sciences  

**Department**  
Department of Psychology  

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CYP6909 - Research Report  
*Course Title*  
Research Report  

**Credits Hours**  
1 - 99  

**College**  
College of Sciences  

**Department**  
Department of Psychology  

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CYP6918 - Directed Research  
*Course Title*  
Directed Research  

**Credits Hours**  
1 - 99  

**College**  
College of Sciences  

**Department**  
Department of Psychology
CYP6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Psychology

CYP6942 - Practicum in Psychological Counseling

Course Title
Practicum in Psychological Counseling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Clinical Psychology MA and CLP 6195C and CLP 6441C, or C.I.

Course Description
Training in psychotherapy skills in a community setting under faculty supervision.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Spring
CYP6948C - Psychology Internship

Course Title
Psychology Internship

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
Jan-99

Prerequisites
- Clinical psychology MA students.

Course Description
Supervised placement in community setting for 10-30 hours per week. Graded S/U. May be repeated for credit.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional

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DEP - Developmental Psychology

DEP5057 - Developmental Psychology

Course Title
Developmental Psychology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
Psychological aspects of development including intellectual, social, and personality factors.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Spring
DEP5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology

DEP5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Psychology

DEP6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology

DEP6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology
**DEP6938 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Psychology

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**DIG - Digital Media**

**DIG5045C - Principles of Interactive Entertainment I**

**Course Title**
Principles of Interactive Entertainment I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Admission to Digital Media MS program or C.I.

**Course Description**
Interactive digital content creation technologies and development processes.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Fall
DIG5046C - Principles of Interactive Entertainment II

Course Title
Principles of Interactive Entertainment II

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- DIG 5045C or C.I.

Course Description
Advanced principles of interactive digital content creation technologies and development processes.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

DIG5137 - Information Architecture

Course Title
Information Architecture

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Film and digital media majors or C.I.

Course Description
Exploration of the process of formal design of interactive processes, examining the theories of usability and object oriented design.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall
DIG5348C - Digital Asset Creation

Course Title
Digital Asset Creation

Credits Hours
3

Lab/Studio/Field Work Hours
3

Course Description
Introduction to digital art asset creation fundamentals, including figure drawing, digital painting, 3d modeling, animation, character setup, technical art and contemporary game engine topics.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

DIG5366C - Animation and Visual Effects Production II

Course Title
Animation and Visual Effects Production II

Credits Hours
3

Lab/Studio/Field Work Hours
2

Course Description
Topics in animation and visual effects project creation and production pipeline management in a team environment.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring
DIG5378C - Editing for Animation and Visual Effects I: Theory and Production

Course Title
Editing for Animation and Visual Effects I: Theory and Production

Credits Hours
3

Lab/Studio/Field Work Hours
2

Course Description
Exploration of history and grammar of editing will be examined, adapted and applied to the specific needs of narrative animation and live-action visual effects.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring

DIG5385C - Visual Effects for Animation and Live Action I

Course Title
Visual Effects for Animation and Live Action I

Credits Hours
3

Lab/Studio/Field Work Hours
2

Course Description
Application of digital tools to generate visual effects animation for successful integration with animate and live action media, and the aesthetic critique of results.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring
DIG5386C - Animation and Visual Effects Production I
Course Title
Animation and Visual Effects Production I

Credits Hours
3

Lab/Studio/Field Work Hours
2

Course Description
Production of a short animated or visual effects concept to completion with the focus on working as an individual to meet deadlines.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Fall

DIG5387C - Visual Development and Design for Animation and Visual Effects
Course Title
Visual Development and Design for Animation and Visual Effects

Credits Hours
3

Lab/Studio/Field Work Hours
2

Course Description
Design concepts are applied to animation environments to create a "personality of place", visual continuity, and to create the visual universe of the story.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring
DIG5439C - Script and Story Development for Animation and Visual Effects

**Course Title**
Script and Story Development for Animation and Visual Effects

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Course Description**
Emerging Media MFA - Animation and Visual Effects track student or C.I. Students will write and storyboard original narrative short animation, or script and storyboard solutions addressing specific live action problems in visual effects.

**College**
College of Arts and Humanities

**Department**
School of Visual Arts and Design

**Terms of Offering**
Fall

DIG5487 - Media Aesthetics

**Course Title**
Media Aesthetics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Aesthetics within digital environments, relationship between technologies, visual elements, and the body. Introduction to theoretical traditions along with written and digital projects, including an exhibition.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Fall
DIG5508 - Programming for Digital Media

Course Title
Programming for Digital Media

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
This course provides a foundation for understanding and applying the elements of programming which target interactive media. Topics include functions, variables, classes, data types, and design patterns.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

DIG5529C - Production for Media

Course Title
Production for Media

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to Digital Media MS program or C.I.

Course Description
Theories and practices of production processes for interactive entertainment.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall
DIG5548C - Rapid Prototype Production I

Course Title
Rapid Prototype Production I

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to Digital Media MS or C.I. Students engage in interdisciplinary teams to create rapid development projects.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

DIG5549 - Experimentation, Application, and Innovation in Games

Course Title
Experimentation, Application, and Innovation in Games

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- DIG 5529C or C.I.

Course Description
Survey and development of games being used in non-traditional applications, such as medical simulation, education and research.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring
DIG5557C - Production and Design I

Course Title
Production and Design I

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to FIEA MS in Interactive Entertainment program or C.I.

Course Description
Theory and methodology for creation and communication of videogame designs.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

DIG5565C - Digital Asset Management Systems

Course Title
Digital Asset Management Systems

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Graduate standing or C.I.

Course Description

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional
DIG5637 - Game Programming Fundamentals

Course Title
Game Programming Fundamentals

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to FIEA M.S. in Interactive Entertainment program or C.I. An introduction to real-time game programming fundamentals, including computer architecture and low-level programming and optimization. Specific attention to game consoles and cross-platform software development.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

DIG5831 - Computational Media

Course Title
Computational Media

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- DIG 5508 Programming for Digital Media.

Course Description
Computational media techniques used in interactive media, focusing on authorship and creative applications. Topics include style transfer, voice recognition, and synthesis and text generation.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring
DIG5856 - Experimentation, Application and Innovation in Games

**Course Title**
Experimentation, Application and Innovation in Games

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- DIG 5529C or C.I.

**Course Description**
Survey and development of games being used in non-traditional applications, such as medical simulation, education and research.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Spring

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DIG5865 - The History of Animation and Visual Effects

**Course Title**
The History of Animation and Visual Effects

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Emerging Media MFA - Animation and Visual Effects track student or C.I. History of animation and visual effects from beginning to present covering a wide-range of narrative, independent, commercial, and experimental projects produced throughout the world.

**College**
College of Arts and Humanities

**Department**
School of Visual Arts and Design

**Terms of Offering**
Fall
DIG5875C - Introduction to Modeling and Simulation
Course Title
Introduction to Modeling and Simulation

Credits Hours
3

Prerequisites
- STA 2023 or equivalent

Course Description
Introduction to the theory and practice of modeling and simulation with emphasis on multidisciplinary scientific underpinnings.

College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Terms of Offering
Summer
Spring
Fall

DIG5917 - Directed Research
Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Nicholson School of Communication and Media
DIG6099C - Media Distribution

Course Title
Media Distribution

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- DIG 6558 or C.I.

Course Description
Theory and practical application of videogame messaging, advertisement and distribution.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Summer

DIG6136 - Design for Interactive Media

Course Title
Design for Interactive Media

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- DIG 5508: Programming for Digital Media, or C.I.

Course Description
This studio course gives students tangible experience with the design principles, methodologies, and processes used for interactive media.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring
DIG6365C - Media and Music for Animation and Visual Effects

Course Title
Media and Music for Animation and Visual Effects

Credits Hours
3

Lab/Studio/Field Work Hours
1

Course Description
Course will examine the use and effect of music/sound effects in various forms of media: film, games, commercials, and other forms of multimedia.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring

DIG6377C - Visual Effects for Animation and Live Action II

Course Title
Visual Effects for Animation and Live Action II

Credits Hours
3

Lab/Studio/Field Work Hours
2

Course Description
DIG 5385C Visual Effects for Animation and Live Action I or C.I. Integration of digital elements and live action footage and the aesthetic critique of those results.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring
DIG6379C - Editing for Animation and Visual Effects II: Practical Editing

**Course Title**
Editing for Animation and Visual Effects II: Practical Editing

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- DIG 5378C or C.I.

**Course Description**
Students will apply practical editing solutions and incorporate audio to their own animation or visual effects material.

**College**
College of Arts and Humanities

**Department**
School of Visual Arts and Design

**Terms of Offering**
Fall

DIG6384C - Directing for Animation and Visual Effects

**Course Title**
Directing for Animation and Visual Effects

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Course Description**
Emerging Media MFA - Animation and Visual Effects track student or C.I. Topics in production planning and adaptation of live action directing techniques to unique problems in Animation and Visual Effects.

**College**
College of Arts and Humanities

**Department**
School of Visual Arts and Design

**Terms of Offering**
Fall
DIG6388C - Animation and Visual Effects Production III

Course Title
Animation and Visual Effects Production III

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- DIG 5366C or C.I.

Course Description
Preproduction (including storyboards, visual development, and character and environmental design) for individual MFA thesis project created and presented for faculty approval.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Fall

DIG6389C - Animation and Visual Effects Production IV

Course Title
Animation and Visual Effects Production IV

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- DIG 6388C or C.I.

Course Description
Research and production of an initial animation test demonstrating the visual look and process strategy for final MFA thesis project and presentation for faculty approval.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Spring
DIG6432 - Transmedia Story Creation

**Course Title**
Transmedia Story Creation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Film and digital media majors or C.I.

**Course Description**
Repurposing of traditional stories: creation of authentic environments and the emergence of new authoring scenarios.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Summer
Fall

DIG6436 - Ethnographic Storytelling and New Media

**Course Title**
Ethnographic Storytelling and New Media

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Theories and practices related to ethnographic storytelling using new media.

**College**
College of Arts and Humanities

**Department**
College of Arts and Humanities Dean's Office

**Terms of Offering**
Odd Fall
DIG6524 - Studio 1

Course Title
Studio 1

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Studio project management, conceptualization, and prototyping for intensive digital projects. Create project proposal and timeline, concept and design documentation, and prototype, and participate in critiques.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

DIG6528 - Studio 2

Course Title
Studio 2

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Continuing studio sequence for students producing a culminating digital project. Students produce a polished final project for public showcase and/or exhibition.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring
DIG6546 - Previsualization and Concept Development

**Course Title**

Previsualization and Concept Development

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Film and digital media majors, DIG 6136, or C.I.

**Course Description**

Skills and knowledge for planning and developing a new feature length film or digital media project.

**College**

College of Sciences

**Department**

Nicholson School of Communication and Media

**Terms of Offering**

Fall

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DIG6547C - Preproduction and Prototyping

**Course Title**

Preproduction and Prototyping

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

3

**Prerequisites**

- DIG 5529C or C.I.

**Course Description**

Standard pre-production process in interactive entertainment.

**College**

College of Sciences

**Department**

Nicholson School of Communication and Media

**Terms of Offering**

Fall
DIG6551 - Theory and Practice of Interactive Storytelling

**Course Title**
Theory and Practice of Interactive Storytelling

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Analysis and creation of interactive stories within and across platforms. What makes stories compelling, how to exploit the particular affordances of media through authors communicate.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Spring

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DIG6558 - Production and Design II

**Course Title**
Production and Design II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- DIG 5557C or C.I.

**Course Description**
Advanced principles of game design and production including integrating development skills into level designs and complete games.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Spring
DIG6559C - Advanced Digital Asset Creation

Course Title
Advanced Digital Asset Creation

Credits Hours
3

Lab/Studio/Field Work Hours
3

Course Description
Advanced techniques in digital asset specializations such as 2d art, mobile application art, 3d modeling and texturing, animation, lighting and effects and technical art topics.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring

DIG6589C - Digital Asset Portfolio Development

Course Title
Digital Asset Portfolio Development

Credits Hours
3

Lab/Studio/Field Work Hours
3

Course Description
DIG 6559C or C.I. Concentration in professional digital artist portfolio development in specializations such as 2d art, mobile application art, 3d modeling and texturing, animation, lighting and effects and technical art topics.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Summer
DIG6605 - Physical Computing

**Course Title**
Physical Computing

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- DIG 5137.

**Course Description**
Introduces methods of connecting physical objects to microprocessor controllers in order to build original interactive components for research or artistic purposes.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Odd Spring

DIG6635 - Applied Programming Mechanics

**Course Title**
Applied Programming Mechanics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- DIG 6638 or C.I.

**Course Description**
Application of advanced software development principles for interactive entertainment.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Summer
DIG6638 - Advanced Game Programming

**Course Title**
Advanced Game Programming

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
DIG 5637 or C.I. Advanced principles of software development for interactive entertainment.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Spring

DIG6647 - History and Theory of Dynamic Media

**Course Title**
History and Theory of Dynamic Media

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Contemporary interactive media theory and history of convergence between computing, fine arts, and narrative media. Through hands on interactive media production, synthesis and evaluation-oriented projects.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Fall
DI6718C - Interactive Entertainment Project

Course Title
Interactive Entertainment Project

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- DIG 5046C or C.I.

Course Description
Students implement a complete game, based on designs pre-produced and prototyped in previous courses.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

DIG6812 - Digital Interaction for Informal Learning

Course Title
Digital Interaction for Informal Learning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Theories of digital media interaction that apply to the design of interfaces that help people learn in informal contexts.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional
DIG6817 - Contemporary Topics in Interactive Media  
Course Title  
Contemporary Topics in Interactive Media  
Credits Hours  
3  
Lab/Studio/Field Work Hours  
0  
Prerequisites  
- Graduate standing.  
Course Description  
Digital media research topics including games for health, social impact, and art; folklore in interactive media; data visualizations and informal learning; extended reality design.  
College  
College of Sciences  
Department  
Nicholson School of Communication and Media  
Terms of Offering  
Occasional  

DIG6825 - Research Methods for Interactive Media  
Course Title  
Research Methods for Interactive Media  
Credits Hours  
3  
Lab/Studio/Field Work Hours  
0  
Prerequisites  
- Graduate standing.  
Course Description  
Scholarly and creative research design and methods for interactive media. Topics: research questions, literature reviews, qualitative, quantitative, and mixed methods, and story world research.  
College  
College of Sciences  
Department  
Nicholson School of Communication and Media  
Terms of Offering  
Spring
DIG6836 - Design and Development for Texts and Technology

Course Title
Design and Development for Texts and Technology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
A study of the applied design and development process on concepts and practices of literacy/electracy, including pedagogical, artistic, workplace, and leisure-based communicative practices.

College
College of Arts and Humanities

Department
College of Arts and Humanities Dean's Office

Terms of Offering
Fall

DIG6866C - Technical Problem Solving for Animation and Visual Effects

Course Title
Technical Problem Solving for Animation and Visual Effects

Credits Hours
3

Lab/Studio/Field Work Hours
2

Course Description
Emerging Media MFA - Animation and Visual Effects track student or C.I. Addresses and solves unique problems presented by individualized graduate thesis projects in animation and visual effects.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Fall
DIG6944C - Game Design Practicum
Course Title
Game Design Practicum

Credits Hours
6

Lab/Studio/Field Work Hours
6

Prerequisites
- DIG 5046C or C.I.

Course Description
Supervised experience supplementing theoretical and practical experiences involving new research developments or partnerships within industry.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

DIG6947C - Digital Venture Practicum
Course Title
Digital Venture Practicum

Credits Hours
6

Lab/Studio/Field Work Hours
4

Course Description
Principles and application of digital venture business development, IP rights, market research, iterative production, monetization, support and distribution as it relates to a start-up entity.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall
DIG6971 - Thesis
Course Title
Thesis
Credits Hours
1 - 99
College
College of Sciences
Department
Nicholson School of Communication and Media

EAB - Experimental Analysis of Behavior

EAB5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology

EAB5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Psychology

EAB6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology
EAB6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Psychology

EAB6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Psychology

EAS - Engineering: Aerospace

EAS5123 - Intermediate Aerodynamics

Course Title
Intermediate Aerodynamics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EAS 4134

Corequisites
- EML 5060.

Course Description
Aerodynamic characteristics of airfoils, finite wings, waves, wing-body combinations, viscous flow and flow instabilities. Airfoil design.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EAS5157 - V/Stol Aerodynamics and Performance

Course Title
V/Stol Aerodynamics and Performance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EAS 4105

Corequisites
- EML 5060.

Course Description
Momentum theory, blade element theory, hover and forward flight, stability, aeroelasticity.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EAS5211 - Aeroelasticity

Course Title
Aeroelasticity

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EAS 3101 or EML 3701 and EML 4225.

Course Description
Concerned with consequences and trade-offs created by interactions between aerodynamic forces and structural deformation. Static aeroelastic problems; control effectiveness; lift effectiveness; divergence. Dynamic aeroelasticity; flutter and vibration.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EAS5302 - Direct Energy Conversion

**Course Title**
Direct Energy Conversion

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EML 3101 and EML 4142.

**Course Description**
Direct methods of energy conversion; particular emphasis on fuel cells, thermoelectrics, thermionics, solar energy, photovoltaics and magnetohydrodynamics. Analysis and systems design.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Occasional

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EAS5315 - Rocket Propulsion

**Course Title**
Rocket Propulsion

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EAS 4134 or EML 4703.

**Course Description**
Analysis and performance of rocket motors; selection and thermochemistry of chemical propellants: liquid and solid propellant rockets.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Occasional
EAS5407C - Mechatronic Systems

**Course Title**
Mechatronic Systems

**Credits Hours**
3

**Prerequisites**
- EML 3034C

**Course Description**
Discrete control techniques for aerospace mechatronic systems. Controller design, test and evaluation.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Occasional

EAS5535 - Engineering Design for Aerospace Vehicles

**Course Title**
Engineering Design for Aerospace Vehicles

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EAS 4700C, EAS 4710C, EML 4501C, EML 4502C, or equivalent.

**Course Description**
Applications of the design process to aerospace vehicles. A system approach will be emphasized. Techniques for optimizing interface requirements will be covered.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Occasional
EAS5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Mechanical and Aerospace Engineering

EAS5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department
Department of Mechanical and Aerospace Engineering

EAS6138 - Advanced Gas Dynamics
Course Title
Advanced Gas Dynamics
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EML 5713.
Corequisites
- EML 5060.
Course Description
Analysis of steady and unsteady transonic, supersonic and hypersonic flows. Shock waves, nozzles, diffusers, and high speed wind tunnels.
College
College of Engineering and Computer Science
Department
Department of Mechanical and Aerospace Engineering
Terms of Offering
Odd Fall
EAS6185 - Turbulent Flow

Course Title

Turbulent Flow

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- EML 5060 and EML 5713.

Course Description

Phenomena and methods of characterizing turbulence; spatial and temporal velocity correlation; energy spectra; transition prediction; turbulent boundary layer equations; hot wire and LDV measurement techniques.

College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Terms of Offering

Even Fall

EAS6222 - Non-Destructive Evaluation of Aero-Structures

Course Title

Non-Destructive Evaluation of Aero-Structures

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- EAS 4200 or EML 5237.

Course Description

Overview of methods employed for non-destructive evaluation of structures in the context of damage tolerant analysis.

College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Terms of Offering

Spring
EAS6250 - Structural and Dynamic Stability

Course Title
Structural and Dynamic Stability

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5237, EML 5271.

Course Description
Concepts of and analysis methods for elastic and dynamic stability and associated bifurcations, including for high strain rates and structures with multiple stable equilibria.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Spring

EAS6403C - Attitude Determination and Control

Course Title
Attitude Determination and Control

Credits Hours
3

Lab/Studio/Field Work Hours
3

Course Description
Spacecraft attitude dynamics and control. Pointing and stabilization methods. Optimal and learning algorithms applied to perturbation analysis.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering
EAS6405 - Advanced Flight Dynamics

**Course Title**
Advanced Flight Dynamics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Occasional

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EAS6414 - Estimation of Dynamical Systems in Aerospace Engineering

**Course Title**
Estimation of Dynamical Systems in Aerospace Engineering

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EML 5271, EML 5060 or C.I.

**Course Description**
Concepts of parameter estimation, probability concepts in estimation and estimation of dynamical systems relevant to aerospace systems applications.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Fall
EAS6415 - Guidance, Navigation and Control

Course Title
Guidance, Navigation and Control

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5060, EAS 6507.

Course Description
Inertial and GPS navigation techniques. Explicit and implicit guidance formulations. Robust control applications to aircraft, missile and space vehicles.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EAS6507 - Topics of Astrodynamics

Course Title
Topics of Astrodynamics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5271 or C.I.

Course Description
Spacecraft attitude dynamics and control. Orbital mechanics. Optimal control of aerospace vehicles. Emphasis is on recent developments and applications.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EAS6722 - Multidisciplinary Optimization Under Uncertainty

Course Title
Multidisciplinary Optimization Under Uncertainty

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5060 or C.I.

Course Description
Formulation of design objectives as optimization problems. Application of optimization techniques to design. Surrogate techniques for analytical and experimental optimum engineering design. Applications to project.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Fall

EAS6807C - Aerospace Measurements Instrumentation

Course Title
Aerospace Measurements Instrumentation

Credits Hours
3 - 99

Lab/Studio/Field Work Hours
3

Prerequisites
- EAS 4134, EAS 3800C, EAS 6507, EML 5060, or C.I.; not open to students who have credit for EML 6308C.

Course Description
Inertial instruments (i.e.; gyros, accelerometers), thermal, fluid, optical sensors and actuators, for space and aerodynamic applications.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EAS6808 - Space Environment and Payload Instrumentation

Course Title
Space Environment and Payload Instrumentation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EAS 4504, EML 5060 or C.I.

Course Description
Space environment and payload instrumentation. Characterization of space environment and payload instrumentation methods.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EAS6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

EAS6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering
EAS6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

EAS7980 - Dissertation

Course Title
Dissertation

Credits Hours
1 - 99

Prerequisites
- Candidacy status.

Course Description
Dissertation

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EBD - Education: Emotional Behavioral Disorders

EBD5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education
**EBD6117 - Behavior Disorders in Schools**  
**Course Title**  
Behavior Disorders in Schools  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Course Description**  
Basic Teacher Certificate or C.I. Assessment analysis of behavior disorders, cause and effects, identification and theories.  
**College**  
College of Community Innovation and Education  
**Department**  
School of Teacher Education

**EBD6909 - Research Report**  
**Course Title**  
Research Report  
**Credits Hours**  
1 - 99  
**College**  
College of Community Innovation and Education  
**Department**  
School of Teacher Education

**EBD6918 - Directed Research**  
**Course Title**  
Directed Research  
**Credits Hours**  
1 - 99  
**College**  
College of Community Innovation and Education  
**Department**  
School of Teacher Education

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**ECM - Engineering: Computer Mathematics**
ECM5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department

ECM5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department

ECM6308 - Current Topics in Parallel Processing
Course Title
Current Topics in Parallel Processing
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
* C.I.
Course Description
Research topics in parallel architectures, including, but not limited to, systolic architectures, wavefront arrays, interconnection networks, reconfigurable architectures and fast algorithms. May be used in the degree program a maximum of 2 times.
College
College of Engineering and Computer Science
Department
Terms of Offering
Even Fall
ECM6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department

ECM6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department

ECM6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department

ECO - Economics
ECO5445 - Introduction to Business Analytics

**Course Title**
Introduction to Business Analytics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to the Master's in Economics or C.I. Students are introduced to important tools of business analytics; first, UNIX, SQLite, and Python; then analyzing data using R and implementing numerical methods using Python.

**College**
College of Business Administration

**Department**
Department of Economics

**Terms of Offering**
Fall

ECO5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Business Administration

**Department**
Department of Economics

ECO5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Business Administration

**Department**
Department of Economics
ECO6115 - Economic Analysis of the Firm

Course Title
Economic Analysis of the Firm

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CBA Master's program of Study Foundation Core.

Course Description
Commodity price and output determination; factor price determination and functional income distribution; analysis of different types of markets.

College
College of Business Administration

Department
Department of Economics

Terms of Offering
Spring
Fall

ECO6118 - Microeconomic Theory I

Course Title
Microeconomic Theory I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ECO 3101 (or equivalent), ECO 3410 (or equivalent), and ECO 6403 (concurrent enrollment), or C.I.

Course Description
Microeconomic principles governing individual decision-making relative to the theory of the firm and consumer choice.

College
College of Business Administration

Department
Department of Economics

Terms of Offering
Fall
ECO6315 - Seminar in Contemporary Economic Issues

Course Title
Seminar in Contemporary Economic Issues

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ECO 6118 or equivalent and ECO 6403 or equivalent.

Course Description
Discussion and analysis of current economic problems and issues. May be used in the degree program a maximum of 3 times only when course content is different.

College
College of Business Administration

Department
Department of Economics

Terms of Offering
Occasional

ECO6403 - Mathematical Economics

Course Title
Mathematical Economics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ECO 3101 (or equivalent), ECO 3410 (or equivalent), and ECO 6118 (co-requisite), or C.I.

Course Description
Covers the foundations of economic theory with particular focus on the mathematical methods that are indispensable for proper understanding of the economic literature.

College
College of Business Administration

Department
Department of Economics

Terms of Offering
Fall
ECO6404 - Games and Economic Behavior

Course Title
Games and Economic Behavior

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and ECO 6118.

Course Description
The study of interactive and strategic behavior relying on Experimental Game Theoretic literature.

College
College of Business Administration

Department
Department of Economics

Terms of Offering
Even Fall

ECO6416 - Applied Business Research Tools

Course Title
Applied Business Research Tools

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Master's of Business Administration program foundation core courses; Core I Courses.

Course Description
Multivariate methods and related tools applied to analyze business and economic data as an aid in decision making.

College
College of Business Administration

Department
Department of Economics

Terms of Offering
Fall
ECO6424 - Econometrics I

**Course Title**
Econometrics I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ECO 6403 (or equivalent) and ECO 6118 (or equivalent), or C.I.

**Course Description**
Develops basic statistical methods and provides coverage of the general linear regression model, generalized least squares, generalized methods of moments, and multi-equation models.

**College**
College of Business Administration

**Department**
Department of Economics

**Terms of Offering**
Fall

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ECO6445 - Data Wrangling

**Course Title**
Data Wrangling

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ECO 5445, ECO 6405, ECO 6406, and ECO 6118.

**Course Description**
Systematic development of data wrangling methods for use in business analytics as well as quantitative business fields.

**College**
College of Business Administration

**Department**
Department of Economics

**Terms of Offering**
Spring
ECO6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Economics

ECO6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Economics

ECO6935 - Capstone in Business Analytics I

Course Title
Capstone in Business Analytics I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Master's in Economics or C.I.

Course Description
Provides students with the culminating academic experience, a forum in which to develop and carry out research of a well-defined business analytics problem.

College
College of Business Administration

Department
Department of Economics

Terms of Offering
Occasional
ECO6936 - Capstone in Business Analytics II

Course Title
Capstone in Business Analytics II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to the Master's in Economics or C.I., Capstone I. Provides students with continuing culminating academic experience, a forum in which to write-up as well as present research of a well-defined business analytics problem.

College
College of Business Administration

Department
Department of Economics

Terms of Offering
Occasional

ECO6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Business Administration

Department
Department of Economics

ECO6949 - Cooperative Education in Economics

Course Title
Cooperative Education in Economics

Credits Hours
0 - 99

College
College of Business Administration

Department
Department of Economics
ECO7116 - Microeconomic Theory II

**Course Title**
Microeconomic Theory II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ECO 6118 (or equivalent) and ECO 6403 (or equivalent).

**Course Description**
Advanced treatment of demand, production, cost, and market theory under varying competitive conditions.

**College**
College of Business Administration

**Department**
Department of Economics

**Terms of Offering**
Spring

ECO7426 - Econometrics II

**Course Title**
Econometrics II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ECO 6424 (or equivalent) or C.I.

**Course Description**
Covers estimation of static and dynamic panel data models, and limited dependent variable models as well as sample selection problems.

**College**
College of Business Administration

**Department**
Department of Economics

**Terms of Offering**
Fall
ECO7919 - Research
Course Title
Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Economics

ECO7939 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Business Administration
Department
Department of Economics

ECP - Economic Problems & Policy

ECP5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Economics

ECP5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Business Administration
Department
Department of Economics
ECP5957 - Study Abroad

Course Title
Study Abroad

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Economics

ECP6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Economics

ECP6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Economics

ECP6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Business Administration

Department
Department of Economics
ECP7919 - Research
Course Title
Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Economics

ECS - Economic Systems & Development

ECS5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Economics

ECS5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Business Administration
Department
Department of Economics

ECS6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Economics
ECS6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Business Administration

**Department**
Department of Economics

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ECS6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Business Administration

**Department**
Department of Economics

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ECT - Education:Career/Technical

ECT5907 - Independent Study

**Course Title**
Independent Study

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

ECT5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education
ECT5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

ECT5944 - Internship

**Course Title**
Internship

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

ECT5949 - Cooperative Education

**Course Title**
Cooperative Education

**Credits Hours**
0 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

ECT5957 - Study Abroad

**Course Title**
Study Abroad

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education
ECT6791 - Research in Career Education

Course Title
Research in Career Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Curricular, instructional, demographic, and trends research in the field of career and technical education.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Spring

ECT6908 - Independent Research

Course Title
Independent Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

ECT6909 - Research Report

Course Title
Research Report

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education
ECT6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education

ECT6938 - Special Topics
Course Title
Special Topics
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education

ECT6946 - Graduate Internship
Course Title
Graduate Internship
Credits Hours
0 - 99
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education

ECT6958 - Study Abroad
Course Title
Study Abroad
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education
ECT6971 - Treatise (Thesis or Research Report)
Course Title
Treatise (Thesis or Research Report)
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education

ECT6973 - Thesis Specialist
Course Title
Thesis Specialist
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education

ECW - Education:Career/Workforce

ECW5207 - Management of Career Education Programs
Course Title
Management of Career Education Programs
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate Standing or C.I.
Course Description
Study and achievement of selected competencies needed by career and workforce education teachers, supervisors, and local administrators in the management of career education programs in the schools.
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education
Terms of Offering
Spring
ECW5265 - Experiential Learning in Career and Workforce Education Programs

**Course Title**
Experiential Learning in Career and Workforce Education Programs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Study of various experiential learning methods (apprenticeships, internships, service learning, co-ops) and achievement of competencies to establish, manage, and coordinate programs within career and workforce education.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Summer

ECW5561 - Student Guidance in the Career/Workforce Program

**Course Title**
Student Guidance in the Career/Workforce Program

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate Standing or C.I.

**Course Description**
Achievement of skills used by teachers and professionals as they gather student data, confer with students, and help students plan for employment or further education.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Fall
ECW6067 - History of Career Education in the United States

**Course Title**
History of Career Education in the United States

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
A detailed examination of federal legislation, associations, organizations, people, events, and other key factors that define the history of career education in the U.S.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Fall

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ECW6105 - Career Education Curriculum Planning and Implementation

**Course Title**
Career Education Curriculum Planning and Implementation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate Standing or C.I.

**Course Description**
Achievement of knowledge and skills necessary to participate in the initial determination, planning, organization, and implementation of new or expanded adult, career and workforce education, and technical education institutions or programs.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Fall
**ECW6205 - Administration of Local Career Education Programs**

**Course Title**
Administration of Local Career Education Programs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate Standing or C.I.

**Course Description**
Organization, personnel selection and assignment, and establishment of policies and procedures for local career and workforce education programs within federal, state and local requirements.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Summer

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**ECW6206 - Supervision in Local Career and Technical Education Programs**

**Course Title**
Supervision in Local Career and Technical Education Programs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate Standing or C.I.

**Course Description**
A study in the supervision of CTE instruction, including plans for teacher professional education, curriculum and instruction improvement, coordination of program activities, and personnel relations.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Summer
ECW6268 - School, College, and Career Readiness

**Course Title**
School, College, and Career Readiness

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
The study and achievement of the knowledge, skills, and academic preparation competencies needed to establish, maintain, and coordinate school, college, and career readiness activities and programs.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Spring

ECW6666 - Issues in Career Education

**Course Title**
Issues in Career Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate Standing or C.I.

**Course Description**
An examination of current issues in career education including changing work force demands and implications for secondary and postsecondary career education.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Spring
ECW6695 - School/Community Relations for Career and Technical Education Programs

Course Title
School/Community Relations for Career and Technical Education Programs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Assemble the knowledge and skills to utilize community resources and establish public relations procedures and practices for career and technical education (CTE) programs.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Fall

EDA - Education: Administration

EDA5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

EDA5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education
EDA6061 - Organization and Administration of Schools

Course Title
Organization and Administration of Schools

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Basic Teacher Certificate or C.I.

Course Description
Introduction to and overview of educational administration including governance, finance communications and information management, personnel evaluation.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Every Semester

EDA6062 - Leadership in Educational Organizations

Course Title
Leadership in Educational Organizations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the MA in Educational Leadership

Course Description
This course addresses leadership, organization, and administrative knowledge and skills needed by leaders, directors, and management.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Occasional
EDA6228 - Human Resource Processes in Education

**Course Title**
Human Resource Processes in Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the MA in Educational Leadership.

**Course Description**
Addressed will be human capital recruitment, development, retention, and evaluation are critical to all education organizations.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Occasional

EDA6232 - Legal Aspects of School Operation

**Course Title**
Legal Aspects of School Operation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Basic Teacher Certificate or C.I.

**Course Description**
Study of state and federal laws affecting the operation of public schools emphasizing individual rights and responsibilities of students, faculty, and administrators.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Every Semester
EDA6234 - Personnel and Education Related Law

**Course Title**
Personnel and Education Related Law

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the MA in Educational Leadership.

**Course Description**
This course includes up to date national laws, legal cases, and federal policies related to personnel, students, and education organizations.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Occasional

EDA6240 - Educational Financial Affairs

**Course Title**
Educational Financial Affairs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Basic Teacher Certificate or C.I.

**Course Description**
Theoretical and practical approaches to managing school business affairs at central office and individual school levels.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Every Semester
EDA6246 - Basic Education Funding and Management

Course Title
Basic Education Funding and Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the MA in Educational Leadership.

Course Description
This course addresses general funding sources, management, constraints, and ethical concerns within and beyond Florida for private, charter, for profit, not for profit, and other education organizations.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Occasional

EDA6260 - Educational Systems Planning and Management

Course Title
Educational Systems Planning and Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Basic Teacher Certificate or C.I.

Course Description
Application of current educational management and behavioral theory for systems approaches in schools and educational facilities.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Every Semester
EDA6275 - Digital Leadership and Systems Management

**Course Title**
Digital Leadership and Systems Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the MA in Educational Leadership.

**Course Description**
Addressed in this course are leadership for learning, teaching, data analysis, communication, and decision making across geographic boundaries.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Occasional

EDA6300 - Community School Administration

**Course Title**
Community School Administration

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- C.I.

**Course Description**
The relationships between the school and the community with special emphasis on community needs and the development of a total community school program.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Every Semester
EDA6303 - Organizations and the Community

Course Title
Organizations and the Community

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the MA in Educational Leadership.

Course Description
Addressed will be how community engagement of stakeholder groups is contextual and varies beyond Florida and outside of public education. Assumptions regarding stakeholder groups will be challenged from a social justice perspective.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Occasional

EDA6423 - Data-Based Decision Making for School Educational Leaders

Course Title
Data-Based Decision Making for School Educational Leaders

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Purpose is to understand and use concepts from research, measurement, and assessment to make informed and reasoned decisions.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Every Semester
EDA6502 - Organization and Administration of Instructional Programs

**Course Title**
Organization and Administration of Instructional Programs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Basic Teacher Certificate or C.I.

**Course Description**
Study of school organization, administration, and management with emphasis toward organizational theory, leadership, evaluation, and change and improvement strategies.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Occasional

EDA6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

EDA6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education
EDA6931 - Contemporary Issues in Educational Leadership

**Course Title**
Contemporary Issues in Educational Leadership

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
A capstone course intended to stimulate inspection, analysis, and dialogue regarding contemporary issues and tensions facing educational leaders and educational systems.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Summer
Fall

EDA6932 - Issues in Education

**Course Title**
Issues in Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the MA in Educational Leadership.

**Course Description**
Addressed will be issues in international, for profit, private, charter, public, virtual, and other emerging educational contexts and their unique concerns.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Occasional
EDA6938 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

EDA6939 - Seminar in Educational Administration

Course Title
Seminar in Educational Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
C.I.

Course Description
Discussion of problems in school administration, patterns of curriculum organization, and research projects. May be used in the degree program a maximum of 4 times.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Occasional
EDA6946 - Internship

**Course Title**
Internship

**Credits Hours**
1 - 99

**Prerequisites**
- C.I. Normally, the Educational Leadership internship is completed during the latter part of the degree program.

**Course Description**
Application must be made in semester prior to internship through the student's adviser. May be used in the degree program a maximum of 2 times.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Spring
Fall

EDA7101 - Organizational Theory in Education

**Course Title**
Organizational Theory in Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Educational Leadership Ed.D. Executive track, Educational Leadership Ed.S., or Curriculum and Instruction Ed.D.

**Course Description**
In this course, students will engage with relevant theoretical and empirical literatures regarding organizations, change, and leadership AND apply those literatures to issues of professional practice within their current professional settings, and their own proposed empirical work.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Spring
Fall
EDA7192 - Educational Leadership

Course Title
Educational Leadership

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
EDA 7101 and EDF 7471.

Course Description
An analysis of the interactive process and functioning of groups; development of skills essential for effective educational leadership; and the change process.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Spring

EDA7193 - Instructional Leadership

Course Title
Instructional Leadership

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
EDA 7192 and EDF 7407.

Course Description
Study and analysis of research on leadership resulting in improved student achievement at the local, state, and national levels is the focus of this course.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Summer
EDA7195 - Politics, Governance, and Financing of Educational Organizations

**Course Title**
Politics, Governance, and Financing of Educational Organizations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDA 7215 and EDA 7224.

**Course Description**
The study of policy development as a political process; governance issues; and financial issues in education.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Spring

EDA7196 - Leadership in a Learning Organization

**Course Title**
Leadership in a Learning Organization

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Education Ed.D. program.

**Course Description**
This course emphasizes contemporary leadership theory as it applies to a learning organization; i.e., human resources, district department leadership, military, higher education or business.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Occasional
EDA7205 - Planning, Research, and Evaluation Systems in Educational Administration

**Course Title**
Planning, Research, and Evaluation Systems in Educational Administration

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDA 7193 and EDA 7408.

**Course Description**
The study of research and evaluation methodologies, system theory, and planning and design strategies in educational administration.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Summer

EDA7215 - Community Outreach for Educational Leaders

**Course Title**
Community Outreach for Educational Leaders

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDA 7225 and EDA 7193.

**Course Description**
The course focus will be on developing understandings of the essential relationships between schools and community organizations and the community organizations with themselves.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Fall
EDA7224 - Human Resource Development in Educational Organizations

**Course Title**
Human Resource Development in Educational Organizations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDA 7225 and EDA 7193.

**Course Description**
The purpose of this course is to provide understanding of the functions of recruiting, selecting, placing, evaluating, and compensating people.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Fall

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EDA7225 - Advanced Legal Studies in Education

**Course Title**
Advanced Legal Studies in Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDA 7192 and EDF 7407.

**Course Description**
In-depth study of current legal issues confronting educational leaders and their private sector counterparts.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Summer
EDA7919 - Dissertation Research

Course Title
Dissertation Research

Credits Hours
1 - 6

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

EDA7943 - Field Project in Educational Leadership

Course Title
Field Project in Educational Leadership

Credits Hours
3 - 6

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to doctoral candidacy in the Educational Leadership Ed.D. Executive track or program consent.

Course Description
Field experience and projects for advanced graduate students. Participation in school plant surveys, accreditation visitation, curriculum studies, administrative analysis, and field research. May be used in the degree program a maximum of 5 times.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Summer
Fall
EDA7987 - Dissertation in Practice

Course Title
Dissertation in Practice

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the EdD in Educational Leadership–Executive Track/completion of EdD coursework.

Course Description
The dissertation in practice is the capstone experience during which doctoral students conduct scholarly research on a complex problem of practice in an education organization.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Every Semester

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EDE - Education: Elementary

EDE5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

EDE5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
EDE6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

EDE6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

EDE6933 - Introductory Seminar in Elementary Education

**Course Title**
Introductory Seminar in Elementary Education

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to graduate program or C.I.

**Course Description**
Overview of the MEd and MA in Elementary Education programs' policies and expectations, and exploration of the teaching profession (professional organizations, accomplished practices, publications, issues and terminology).

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Every Semester

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2021-2022 Graduate Catalog
EDE6935 - Capstone Seminar in Elementary Education

Course Title
Capstone Seminar in Elementary Education

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- EDE 6933 or C.I.

Course Description
As a culminating experience, this seminar provides students with the opportunity to synthesize what they have learned throughout their MEd or MA in Elementary Education program.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Every Semester

EDE6938 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

EDE7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education
EDF5607 - Language, Culture and Pedagogy: Impact and Implications

**Course Title**
Language, Culture and Pedagogy: Impact and Implications

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
C.I. Explores in-depth issues surrounding learning needs of students from linguistically and culturally diverse populations. Research on language, culture and pedagogy will be highlighted.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Occasional

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EDF5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research
EDF6141 - Human Intelligence

Course Title
Human Intelligence

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and a course in learning.

Course Description
An examination of theory and research on human intelligence and its relation to learning and cognitive performance with emphasis on implications for educational and workplace settings.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional

EDF6155 - Lifespan Human Development and Learning

Course Title
Lifespan Human Development and Learning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Research in childhood, adolescent, and adult development relevant to contemporary American education. Emphasis on application of theory to educational practice.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Every Semester
EDF6206 - Challenges of Classroom Diversity

Course Title
Challenges of Classroom Diversity

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, EDF 6886 or C.I.

Course Description
An examination of factors which shape the curriculum in diverse classrooms with specific attention to learning, assessment and best practices appropriate for minority students.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional

EDF6216 - Motivation in Learning and Performance

Course Title
Motivation in Learning and Performance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
An examination of theory and research in learning and performance with an emphasis on practical applications for educational and workplace settings.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional
EDF6233 - Introduction to Action Research and Analysis of Classroom Practice

Course Title
Introduction to Action Research and Analysis of Classroom Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDG 6935, EDG 6223, and EDF 6472.

Course Description
Analyses of teaching and curriculum practices to inform design of data-driven assessment that provides evidence of student learning and progress.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Every Semester

EDF6237 - Principles of Learning and Introduction to Classroom Assessment

Course Title
Principles of Learning and Introduction to Classroom Assessment

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Students will examine prominent developmental and learning theories in depth and their implications for instruction and assessment. Key issues in educational psychology will be explored.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
EDF6259 - Learning Theories Applied to Leadership in Teaching Practice

Course Title
Learning Theories Applied to Leadership in Teaching Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Examination and application of theories of learning, leadership, and best practice in teaching that result in evidence of student progress.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Every Semester

EDF6401 - Statistics for Educational Data

Course Title
Statistics for Educational Data

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Design of educational evaluation; analysis of data, descriptive and inferential statistics, interpretation of results.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Every Semester
EDF6432 - Measurement and Evaluation in Education
Course Title
Measurement and Evaluation in Education
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing.
Course Description
Concepts of measurement and evaluation, classroom test construction, creation and use of derived scores, selection and use of published measurement instruments, current issues.
College
College of Community Innovation and Education
Department
Learning Sciences & Educational Research
Terms of Offering
Every Semester

EDF6447 - Development and Validation of Educational Tests and Measures
Course Title
Development and Validation of Educational Tests and Measures
Credits Hours
3
Lab/Studio/Field Work Hours
0
Course Description
EDF 6401, EDF 6432. Criterion and norm-referenced test development for educational agencies: specifications, item development and trial, scaling, passing scores, and test norms.
College
College of Community Innovation and Education
Department
Learning Sciences & Educational Research
Terms of Offering
Every Semester
EDF6464 - Mixed Methods for Evaluation in Educational Settings

Course Title
Mixed Methods for Evaluation in Educational Settings

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDF 6401 and EDF 6481 or C.I.

Course Description
This service learning course will examine component and integrated mixed method designs toward developing a proposal for a program evaluation for a local nonprofit organization.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

EDF6472 - Data-Driven Decision-Making for Instruction

Course Title
Data-Driven Decision-Making for Instruction

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EDG 6935 and EDG 6223 or admission to K-8 Math and Science MEd. Understand how to design a research study, understand basic measurement principles, collect/analyze data, interpret results, report findings, apply research-to-practice in applied settings.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Spring
Fall
EDF6481 - Fundamentals of Graduate Research in Education

Course Title
Fundamentals of Graduate Research in Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Review and critique of research literature, use of library resources for educational research, and introduction to the concepts of research design and data analysis.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Every Semester

EDF6486 - Research Design in Education

Course Title
Research Design in Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EDF 7403 or C.I. An examination of methodological techniques for specific educational problems. Intended for students in the process of designing independent research studies.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Every Semester
EDF6496 - Teaching and Learning in Urban Settings

Course Title
Teaching and Learning in Urban Settings

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Analysis and discussion of instructional and assessment methods that seek to improve the quality of teaching and learning in urban schools.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Odd Fall
Even Spring

EDF6517 - Perspectives on Education

Course Title
Perspectives on Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
A critical analysis of the conceptual and operative educational systems developed in the United States.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Every Semester
EDF6635 - Capstone: Action Research in Teacher Leadership

Course Title
Capstone: Action Research in Teacher Leadership

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDF 6472 and EDF 6233.

Course Description
The Capstone, the final course in the program, is an action research study. The research study focuses on contemporary research in teacher leadership.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Spring

EDF6688 - Public Policy and Urban Education

Course Title
Public Policy and Urban Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Critical analysis of public policy formation, implementation, and evaluation with regard to their impact on urban schools and communities.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Even Fall
Odd Spring
EDF6725 - Critical Issues in the Study of High Needs Populations

Course Title
Critical Issues in the Study of High Needs Populations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. This course explores issues of social, political, and economic conditions and their impacts on schools and communities serving diverse learners in high needs settings and their families.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer

EDF6727 - Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education

Course Title
Critical Analysis of Social, Ethical, Legal, and Safety Issues Related to Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Analysis of critical issues in education including social, ethical, legal, and safety concerns which impact the quality of education.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall
EDF6809 - Introduction to Comparative and International Education

Course Title
Introduction to Comparative and International Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Surveys the salient issues, perspectives and paradigms of comparative and international education, while introducing students to cross-national comparative research design.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional

EDF6855 - Equitable Educational Opportunity and Life Chances: A Cross-National Analysis

Course Title
Equitable Educational Opportunity and Life Chances: A Cross-National Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Analysis of how gender, class, race, ethnicity, and language affect the quality and outputs of schooling, with a focus on multinational organizations and NGO's.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Summer
EDF6884 - Education as A Cultural Process

Course Title
Education as A Cultural Process

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, EDF 6886, or C.I.

Course Description
An analysis of the theoretical underpinnings of multicultural education with special emphasis on the cultural context of American education for minority groups.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional

EDF6886 - Multicultural Education

Course Title
Multicultural Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
A survey of multicultural education; analysis of the relationship between cultural transmission, cultural pluralism, and the learning process within American schools.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Every Semester
EDF6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Learning Sciences & Educational Research

EDF6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

EDF6938 - Special Topics
Course Title
Special Topics
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education
EDF7403 - Quantitative Foundations of Educational Research

**Course Title**
Quantitative Foundations of Educational Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDF 6401 or C.I.

**Course Description**
Examination of appropriate methods in applied educational contexts. Consideration of analysis strategies for educational data, emphasis on identification and interpretation of findings.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Every Semester

EDF7405 - Quantitative Methods II

**Course Title**
Quantitative Methods II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDF 7403 and EDF 7463 or C.I.

**Course Description**
Correlation, regression, path analysis, and structural equation modeling in educational studies. Use of path analysis and structural equation modeling to test theory.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Fall
EDF7406 - Multivariate Statistics in Education

Course Title
Multivariate Statistics in Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDF 7403 and EDF 7463 or C.I.

Course Description
Statistical methods that simultaneously analyze multiple measurements on an individual or object under investigation.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Spring

EDF7407 - Research in Educational Leadership 2

Course Title
Research in Educational Leadership 2

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDA 7101 and EDF 7471.

Course Description
Focus on the role of statistical analysis in the research process with a focus on a practical application for educational decision makers. The purpose of this course is to familiarize students with basic statistical methods so as to enable one to select appropriate methods and be able to apply them.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Spring
EDF7408 - Research in Educational Leadership 3

Course Title
Research in Educational Leadership 3

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
EDA 7215 and EDA 7224.

Course Description
Research 3 continues the development of respect for the scientific spirit of inquiry and to build upon the problem-solving and research strategies studied in Research 1 and Research 2. The course is intended to enhance students' comfort and confidence with research and statistical tools that will enhance their professional effectiveness.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Spring

EDF7410 - Application of Nonparametric and Categorical Data Analysis in Education

Course Title
Application of Nonparametric and Categorical Data Analysis in Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
EDF 7403 or comparable doctoral level statistics course.

Course Description
Application of nonparametric and categorical data analysis procedures to education. Topics: nonparametrics for single samples, paired samples, independent samples, logistic regression, contingency tables, and logit models.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research
EDF7415 - Latent Variable Modeling In Education

Course Title
Latent Variable Modeling In Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDF 7403 or its equivalent at the doctoral level.

Course Description
This course introduces students to the propriety, fit, parsimony, interpretation and power analysis of latent variable measurement and causal models.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

EDF7427 - Psychometrics

Course Title
Psychometrics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDF 7403, C.I.

Course Description
Overview of classical test theory with an introduction to item response theory and generalizability theory. Techniques for evaluating validity and reliability will be applied through statistical analyses.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Odd Fall
EDF7457 - Data, Assessment, and Accountability

Course Title
Data, Assessment, and Accountability

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Admission to the Education Ed.D. program.

Course Description
Differentiates data from research, emphasizes working with data sets, and guides data use to make ethical decisions and to understand and measure outcomes.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Fall

EDF7463 - Analysis of Survey, Record, and Other Qualitative Data

Course Title
Analysis of Survey, Record, and Other Qualitative Data

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- EDF 6401 and EDF 7403 or C.I.

Course Description
Examination of the major elements involved in planning, conducting, and reporting survey research; emphasis is on the design, instrumentation, data analysis and data; interpretation for survey research.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Every Semester
EDF7468 - Evaluation of Complex Problems of Practice

Course Title
Evaluation of Complex Problems of Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
· Admission to the Education Ed.D. program.

Course Description
Emphasizes evaluation of complex problems of practice, review of effective evaluation, and development of knowledge and skills in program evaluation.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional

EDF7471 - Research in Educational Leadership I

Course Title
Research in Educational Leadership I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
· Admission to the Educational Leadership Ed.D. Executive Track

Course Description
Students will focus on the types of educational research and the fundamentals of a solid research design with an emphasis on practical applications for educational decision makers.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Fall
EDF7473 - Ethnography in Educational Settings

Course Title
Ethnography in Educational Settings

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Doctoral program.

Course Description
Exploration and integration of theories and practices of naturalistic, field-based studies of educational settings, proceeding from conceptualization, through data collection and analysis, to results presentation.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional

EDF7474 - Multilevel Data Analysis In Education

Course Title
Multilevel Data Analysis In Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDF 7403 or comparable doctoral level statistics course.

Course Description
The course will consider the statistical foundations of multilevel linear models, also known as hierarchical linear models (HLMs), and focuses on their application in education and behavioral sciences.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research
EDF7475 - Qualitative Research in Education

Course Title
Qualitative Research in Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral Standing or C.I.

Course Description
Introduction to the philosophical and conceptual basis of qualitative research methods, strategies for gathering, analyzing, and interpreting qualitative data, emerging issues.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Fall

EDF7476 - Advanced Research Methods

Course Title
Advanced Research Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDF 7403, EDF 7463, C.I.

Course Description
Review/expand knowledge of empirical research in education. Includes systematic literature review, convert conceptual questions to concrete, and multiple analytic methods.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Fall
EDF7478 - Analysis of Data for Complex Problems of Practice

Course Title
Analysis of Data for Complex Problems of Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Admission to the Education Ed.D. program.

Course Description
Qualitative and quantitative methods appropriate for the analysis of data are introduced and used for solving complex problems of practice.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional

EDF7479 - Applications of Technology in Qualitative Research: Data, Organization, and Analysis

Course Title
Applications of Technology in Qualitative Research: Data, Organization, and Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
EDF 7475 or C.I.

Course Description
Course includes use of video and audio to collect data, two leading data analysis software packages, and requires students demonstrate competencies in lab-based assignments.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research
EDF 7483 - Mixed Methods Research in Education

Course Title
Mixed Methods Research in Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Students are expected to have completed a foundational masters-level research course.

Course Description
This course provides a doctoral-level introduction to mixed methods research methods and methodology design and its implementation for educational contexts. Mixed methods research combines qualitative and quantitative data collection and analysis. Since the 1990’s, this research method has evolved to include specific approaches and terminology beyond those of the individual quantitative and qualitative fields.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Summer

EDF 7488 - Monte Carlo Simulation Research in Education

Course Title
Monte Carlo Simulation Research in Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Students are taught how to generate univariate and multivariate data under various parametric conditions for the purpose of exploring the limits of analytical procedures.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research
EDF7489 - Quantitative Research Synthesis
Course Title
Quantitative Research Synthesis
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Equivalent to EDF 6481 and EDF 7403.
Course Description
This course addresses the problem of the accumulation of evidence in scientific research through the use of quantitative methods for research synthesis and meta-analysis.
College
College of Community Innovation and Education
Department
Learning Sciences & Educational Research
Terms of Offering
Spring

EDF7494 - Identifying Complex Problems of Practice
Course Title
Identifying Complex Problems of Practice
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to the Education Ed.D. program.
Course Description
Emphasizes orientation toward identifying complex problems of practice through review of sound research methodology and development of knowledge and skills in program evaluation.
College
College of Community Innovation and Education
Department
Learning Sciences & Educational Research
Terms of Offering
Occasional
EDF7916 - Analysis and Synthesis of Educational Literature

**Course Title**
Analysis and Synthesis of Educational Literature

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Doctoral standing or C.I.

**Course Description**
Students will learn to find, select, critically analyze, and synthesize educational research and scholarship.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Even Spring

EDF7919 - Research

**Course Title**
Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

EDF7939 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research
EDF7947 - Internship in Methodology, Measurement, and Analysis

**Course Title**
Internship in Methodology, Measurement, and Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDF 7403, EDF 7463, and C.I.

**Course Description**
This course provides practical application of research skills developed through course work. The student will complete/participate in an approved research project.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Occasional

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EDG - Education: General

EDG5356 - Instructional Coaching

**Course Title**
Instructional Coaching

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
This course will prepare educators to become instructional coaches, developing skills and methods to impact student achievement by influencing teachers' instructional practices.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Summer
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits Hours</th>
<th>College</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG5745 - Teaching the Non-English Student</td>
<td>3</td>
<td>College of Community Innovation and Education</td>
<td>School of Teacher Education</td>
</tr>
<tr>
<td>EDG5917 - Directed Research</td>
<td>1 - 99</td>
<td>College of Community Innovation and Education</td>
<td>School of Teacher Education</td>
</tr>
<tr>
<td>EDG5937 - Special Topics</td>
<td>3</td>
<td>College of Community Innovation and Education</td>
<td>School of Teacher Education</td>
</tr>
</tbody>
</table>
EDG5941 - Clinical Practice

Course Title
Clinical Practice

Credits Hours
2 - 8

Lab/Studio/Field Work Hours
11

Course Description
Admission to STEP II, III or IV. Clinical Internship in an appropriate educational setting under the direction of a university supervisor or peer teacher.

College
College of Community Innovation and Education

Department
School of Teacher Education

EDG6047 - Contemporary Issues in Education

Course Title
Contemporary Issues in Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
An analysis of current trends in education and their impact on educational programs.

College
College of Community Innovation and Education

Department
School of Teacher Education
EDG6223 - Curriculum Theory, Organization, and Policy  
**Course Title**  
Curriculum Theory, Organization, and Policy  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Graduate standing or C.I.  

**Course Description**  
An exploration and examination of foundations and leadership decision-making in curriculum design, development, organization, and policy.  

**College**  
College of Community Innovation and Education  

**Department**  
Learning Sciences & Educational Research  

**Terms of Offering**  
Every Semester  

EDG6224 - Curriculum Policy Analysis  
**Course Title**  
Curriculum Policy Analysis  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Graduate standing.  

**Course Description**  
Overview and synthesis of major components of policy involving curriculum. Exploration of the relationship between curriculum policy and curriculum evaluation as parts of analysis.  

**College**  
College of Community Innovation and Education  

**Department**  
Learning Sciences & Educational Research  

**Terms of Offering**  
Odd Spring
EDG6285 - Evaluation of School Programs

**Course Title**
Evaluation of School Programs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
History of program evaluation, systems approaches to program evaluation, concepts of stakeholder and qualitative approaches to program evaluation, the role of evaluator and administrator.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Occasional

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EDG6329 - Quality Teaching Practices

**Course Title**
Quality Teaching Practices

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Valid teaching certificate.

**Course Description**
Focus is on skills and competencies of quality reflective educators. Teaching episodes are videotaped and analyzed against national standards of teaching quality.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Occasional
EDG6337 - Techniques of Game Use in Education

Course Title
Techniques of Game Use in Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Analysis, development, and use of educational games as an approach to classroom teaching.

College
College of Community Innovation and Education

Department
School of Teacher Education

EDG6415 - Principles of Instruction and Classroom Management

Course Title
Principles of Instruction and Classroom Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or consent of department chair.

Course Description
Students are exposed to various methods of delivering instruction, as well as organizational and management skills. Students microteach and view lessons to develop reflective practices.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall
EDG6636 - Impact of Social Contexts on Teaching and Learning

Course Title
Impact of Social Contexts on Teaching and Learning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EDF 6725. Provides analysis and discussion of instructional and assessment methods that seek to improve the quality of teaching and learning of students/community members in high needs settings. Further, the course is designed to assist students in applying the content of the course to an informed educational practice.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring

EDG6775 - Exploring Global Educational Issues in International Contexts

Course Title
Exploring Global Educational Issues in International Contexts

Credits Hours
1 - 3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Guided field experience in global issues challenging the educational community worldwide, from both academic and experiential perspectives. In conjunction with international field experience/study abroad.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional
EDG6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

EDG6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

EDG6935 - Introductory Seminar in Teacher Leadership

Course Title
Introductory Seminar in Teacher Leadership

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Graduate standing and admitted to Teacher Leadership MED.

Course Description
Examine current leadership trends in educational contexts and critically analyze the role of collaborative leadership in school improvement.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Every Semester
EDG6938 - Special Topics  
**Course Title**  
Special Topics  

**Credits Hours**  
1 - 99  

**College**  
College of Community Innovation and Education  

**Department**  
School of Teacher Education  

EDG6940 - Graduate Internship  
**Course Title**  
Graduate Internship  

**Credits Hours**  
1 - 8  

**Lab/Studio/Field Work Hours**  
8-Jan  

**Prerequisites**  
- Approval of student internship office.  

**Course Description**  
Internship in an appropriate educational setting under the direction of a qualified field supervisor and/or a university supervisor. May be repeated for credit.  

**College**  
College of Community Innovation and Education  

**Department**  
School of Teacher Education
**EDG7221 - Advanced Curriculum Theory**

**Course Title**
Advanced Curriculum Theory

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDG 6223 or C.I.

**Course Description**
An analysis of the research base which supports the various dimensions of the curriculum field.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Occasional

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**EDG7325 - Models of Teaching and Instructional Theory**

**Course Title**
Models of Teaching and Instructional Theory

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDG 6223; EDF 7232 or C.I.

**Course Description**
Examination of models of teaching. Focus on the roles of the teacher, applicable contexts and learning goals; historical, philosophical, learning, and research basis.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Even Fall
Even Spring
EDG7919 - Dissertation Research
Course Title
Dissertation Research

Credits Hours
1 - 6

College
College of Community Innovation and Education

Department
School of Teacher Education

EDG7947 - Laboratory of Practice
Course Title
Laboratory of Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Education Ed.D. program.

Course Description
Guided internship: student placement in a leadership setting in a school, social service agency, private or community setting that is involved with learning or development. May be used in the degree program a maximum of 2 times.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional
EDG7985 - Proposing and Implementing Data-Driven Decisions

Course Title
Proposing and Implementing Data-Driven Decisions

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Education Ed.D. program.

Course Description
Prepares the student for the capstone experience through the development of the capstone proposal and proposal defense.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional

EDG7987 - Dissertation in Practice

Course Title
Dissertation in Practice

Credits Hours
1 - 99

Prerequisites
- Admission to the Education Ed.D. program/completion of Ed.D. coursework.

Course Description
Guides the student through the completion of the capstone project experience. May be used in the degree program a maximum of 7 times.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Every Semester

EDH - Education: Higher
EDH5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

EDH5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

EDH6045 - First Year College Experience

**Course Title**
First Year College Experience

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Focus on critical first year college experience through existing research and practice. Students design a first year experience program within an institution of their choice.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Odd Fall
EDH6047 - Theories of College Student Development

Course Title
Theories of College Student Development

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Study of the composition of student populations in American colleges and universities and the theories and factors within the learning environment which support student development.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Odd Fall

EDH6053 - The Community College in America

Course Title
The Community College in America

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Study of the history, philosophy, goals, and mission of the community college. Functions, policies, practices to satisfy local needs.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Occasional
EDH6065 - History and Philosophy of Higher Education

Course Title
History and Philosophy of Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Early European and American universities, both state and private. Also considers small and private junior and senior colleges.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Fall

EDH6067 - International Higher Education

Course Title
International Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Examines the variegated nature and activities of international higher education from the perspective of both theory and practice.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Odd Fall
EDH6081 - Contemporary Issues in Colleges

**Course Title**
Contemporary Issues in Colleges

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Analysis of the critical issues facing colleges today and in the near future.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Summer
Even Spring

EDH6105 - Retention Strategies in Colleges and Universities

**Course Title**
Retention Strategies in Colleges and Universities

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Analyzing educational and political ramifications of college attrition, with focus on variation in retention practices and strategies.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Even Summer
EDH6204 - Leadership in College Organizations

**Course Title**
Leadership in College Organizations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
An analysis of the organizational structure and leadership functions of the college as they relate to instruction and curriculum.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Even Fall
Odd Spring
Even Summer

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EDH6215 - The College Curriculum

**Course Title**
The College Curriculum

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
An examination of the background, development, function, and goals of the college curriculum.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Odd Fall
Even Spring

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2021-2022 Graduate Catalog
EDH6305 - Teaching and Learning in Colleges and Universities
Course Title
Teaching and Learning in Colleges and Universities
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing or C.I.
Course Description
This course focuses on teaching effectiveness in the college and university setting.
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education
Terms of Offering
Even Fall
Odd Spring
Even Summer

EDH6407 - Ethical and Legal Issues in Student Personnel
Course Title
Ethical and Legal Issues in Student Personnel
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- C.I.
Course Description
Studies of ethical and legal issues in College Student Personnel.
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education
Terms of Offering
Summer
EDH6505 - Finance in Higher Education

Course Title
Finance in Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of Phase II of Education Professional Preparation or C.I.

Course Description
Fundamental considerations in the finance of institutions of higher education.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Spring

EDH6632 - American Professoriate and College Presidency

Course Title
American Professoriate and College Presidency

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Similarities/differences among American professoriate and college presidency in various institutions and academic disciplines. Topics relevant to faculty careers, higher education administration, student affairs, and public policy.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Odd Spring
EDH6634 - Student Personnel Services in Higher Education

Course Title
Student Personnel Services in Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
♦ C.I.

Course Description
A basic introduction to student personnel services which covers philosophy, history, functions, theory, and issues.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

EDH6635 - Organization and Administration of Higher Education

Course Title
Organization and Administration of Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
♦ Graduate standing or C.I.

Course Description
Major trends and challenges of higher education organization and administration; provides synthesis and integration of historical and contemporary issues of academic governance and leadership from theoretical and practical perspectives.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Even Fall
EDH6655 - Athletics in the American University

**Course Title**
Athletics in the American University

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
An examination of the historical and contemporary role of athletics in the American University with explicit focus on the student athlete and student support services of athletes.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Odd Fall

EDH6656 - Academic Success and the Student Athlete

**Course Title**
Academic Success and the Student Athlete

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
This course will examine the factors related to academic success including issues related to the organization and structure of athletic support services.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Odd Summer
EDH6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

EDH6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

EDH6935 - Capstone Seminar in College Student Personnel

Course Title
Capstone Seminar in College Student Personnel

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- C.I.

Course Description
A study of current issues in college student personnel with primary emphasis on the role of professionals and the challenges they may encounter.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Fall
EDH6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education

EDH6946 - Internship
Course Title
Internship
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education

EDH6947 - Practicum in Student Personnel
Course Title
Practicum in Student Personnel
Credits Hours
3
Lab/Studio/Field Work Hours
0
Course Description
EDH 6634. Provides supervised learning experience and opportunities for assessments and evaluation.
College
College of Community Innovation and Education
Department
Department of Educational Leadership & Higher Education
Terms of Offering
Occasional
EDH7040 - Research on the College Student

Course Title
Research on the College Student

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing.

Course Description
Introduction to theoretical concepts and research findings related to student characteristics, college environments, choice, student development, attrition, persistence, cognitive and affective development, and general outcomes.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Even Spring

EDH7046 - Diversity Issues in Higher Education

Course Title
Diversity Issues in Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing,

Course Description
Advanced examination of the application of theory to diversity and inclusion policies and practices in American Higher Education (institutional issues, administrators, faculty, and students).

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Odd Fall
EDH7066 - Higher Education: Philosophical/Historical Perspectives

Course Title
Higher Education: Philosophical/Historical Perspectives

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing or C.I.

Course Description
This course examines basic philosophical positions and history of American higher education, historical research methods, and related applications: developing educational philosophy and historical research skills.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Fall

EDH7207 - Curriculum, Instruction, and Distance Learning in Higher Education

Course Title
Curriculum, Instruction, and Distance Learning in Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing or C.I.

Course Description
Curriculum, Instruction, and Distance Learning in Higher Education examines curriculum and instructional methodologies and ways that distant learning can be used to improve student learning outcomes.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Summer
EDH7208 - International Perspectives of Higher Education

Course Title
International Perspectives of Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Doctoral standing or C.I. To increase understanding of global perspectives, this course explores worldwide tertiary education systems, related collaborations, issues and trends, and the impact of politics, economies, and cultures.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Summer

EDH7366 - Assessment Practices in Higher Education

Course Title
Assessment Practices in Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing or C.I.

Course Description
Prepares higher education leaders with necessary knowledge, understanding, and skills to create and conduct effective assessment programs and activities.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Fall
EDH7401 - Higher Education and Public Policy

Course Title
Higher Education and Public Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing.

Course Description
Course examines development and analysis of US Higher Education policy issues, socio-political contexts at play in policy processes, and how competing policy agendas are negotiated.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Odd Summer

EDH7405 - Legal Issues in Higher Education

Course Title
Legal Issues in Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing or C.I.

Course Description
Addresses legal framework of public and private institutions of higher education with emphasis on case law related to organization, governance, faculty, students, curriculum, and environment. Exploration of key laws and legal concepts applicable to American institutions of higher education, including how to weigh and balance competing rights and responsibilities of institutions, faculty, staff, and students.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Even Fall
EDH7508 - Finance in Higher Education

Course Title
Finance in Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Doctoral standing or C.I. This course is designed to provide students with fundamental considerations, research, theory and practice regarding the funding of higher education institutions.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Spring

EDH7631 - Managing change, conflict, and stability in Higher Education

Course Title
Managing change, conflict, and stability in Higher Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing or C.I.

Course Description
Course introduces and defines nature of change, and reviews theories of transformation in higher education; investigates various higher education change models and practical change strategies.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Odd Fall
EDH7636 - Organizational Theory and Practices in Higher Education

**Course Title**
Organizational Theory and Practices in Higher Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Doctoral standing or C.I. Explores theories and models of organizations and their applicability to colleges and universities and the work done in them.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Fall

EDH7638 - Advanced Seminar in Higher Education

**Course Title**
Advanced Seminar in Higher Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Doctoral standing or C.I.

**Course Description**
Course explores "the enduring enigmas" in Higher Education, those long-contested controversies forging the patterns and traditions of our colleges and universities.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Even Spring
EDH7665 - Higher Education Leadership
**Course Title**
Higher Education Leadership

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Doctoral standing or C.I.

**Course Description**
To increase understanding of research, theories, models and issues related to higher education leadership including administration, college presidency, and faculty roles.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Fall

EDH7919 - Research
**Course Title**
Research

**Credits Hours**
0 - 6

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

EDH7934 - Higher Ed Literature, Research, and Professional Writing Seminar
**Course Title**
Higher Ed Literature, Research, and Professional Writing Seminar

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing or C.I. Provides students with research strategies and writing skills for dissertation preparation, journal writing, publication and reviewing, and conference presentation skills.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education
**EDH7980 - Dissertation**

**Course Title**
Dissertation

**Credits Hours**
1 - 99

**Lab/Studio/Field Work Hours**
Jan-99

**Prerequisites**
- Doctoral standing.

**Course Description**
Dissertation credits course for Higher Ed doctoral students.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Every Semester

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**EDM - Education: Middle School**

**EDM5917 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**EDM5937 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education
EDM6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

EDM6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

EDM6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
School of Teacher Education

EDP - Education: Psychology

EDP5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Learning Sciences & Educational Research

2021-2022 Graduate Catalog
EDP5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

EDP6213 - Seminar in Applied Learning and Instruction I

**Course Title**
Seminar in Applied Learning and Instruction I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
An overview of contemporary theories and research related to human learning and instruction with a focus on affective and motivational issues surrounding learning and instruction.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Fall
EDP6217 - Seminar in Applied Learning and Instruction II  
**Course Title**  
Seminar in Applied Learning and Instruction II  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- EDP 6213 or C.I.  

**Course Description**  
An overview of contemporary theories and research in human learning and instruction. Emphasis on cognition, critical thinking, problem-solving, individual differences, and assessment of learning outcomes.  

**College**  
College of Community Innovation and Education  

**Department**  
Learning Sciences & Educational Research  

**Terms of Offering**  
Spring  

EDP6909 - Research Report  
**Course Title**  
Research Report  

**Credits Hours**  
1 - 99  

**College**  
College of Community Innovation and Education  

**Department**  
Learning Sciences & Educational Research  

EDP6918 - Directed Research  
**Course Title**  
Directed Research  

**Credits Hours**  
1 - 99  

**College**  
College of Community Innovation and Education  

**Department**  
Learning Sciences & Educational Research
EDP6936 - Capstone in Applied Learning & Instruction

Course Title
Capstone in Applied Learning & Instruction

Credits Hours
1 - 6

Lab/Studio/Field Work Hours
0

Prerequisites
- EDP 6213, EDP 6217, EDF 6216, or C.I.

Course Description
Students use critical thinking and written communication skills to integrate and apply material learned in courses in learning, instruction, and motivation.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Fall
Spring

EDP7517 - Facilitating Learning, Development and Motivation

Course Title
Facilitating Learning, Development and Motivation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Education Ed.D. program.

Course Description
Emphasizes using theory and research in learning, development, and motivation to diagnose and solve learning and motivational problems in diverse educational environments.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Fall
EDS5356 - Mentoring and Clinical Supervision of Pre-professional Educators

Course Title
Mentoring and Clinical Supervision of Pre-professional Educators

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- C.I.

Course Description
The practical application of coaching and mentoring practices that satisfy the standards of clinical supervision and assure attainment of the Florida Educator Accomplished Practices.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Every Semester

EDS6123 - Educational Supervisory Practices I

Course Title
Educational Supervisory Practices I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Basic Teacher Certificate or C.I.

Course Description
Analysis of effective supervisory behavior as it relates to human relations/communication skills; leadership; motivation; curriculum development; community relations; and service to teaching.

College
College of Community Innovation and Education

Department
Department of Educational Leadership & Higher Education

Terms of Offering
Every Semester
EDS6130 - Educational Supervisory Practices II

**Course Title**
Educational Supervisory Practices II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDS 6123.

**Course Description**
Analysis of effective supervisory behavior as it relates to planning and change; observation and conferencing skills; staff and group development, problem solving; and decision making.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Spring
Fall

EDS6365 - Education and National Development

**Course Title**
Education and National Development

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
This course explores current issues and relationships between education and national development by studying multinational institutions and nongovernmental organizations engaged in educational planning worldwide.

**College**
College of Community Innovation and Education

**Department**
Department of Educational Leadership & Higher Education

**Terms of Offering**
Fall
EEC - Education: Early Childhood

EEC5205 - Programs and Trends in Early Childhood Education

Course Title
Programs and Trends in Early Childhood Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Regular Certificate or C.I.

Course Description
Philosophy, content, facilities, instructional materials, and activities appropriate for children ages 3 to 8 years; current research; issues and trends. Concurrent laboratory experiences.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
EEC5745 - Child Life: Psychosocial Care of Children in Health Settings

Course Title
Child Life: Psychosocial Care of Children in Health Settings

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEC 3700 or C.I.

Course Description
Course teaches Child Life theory and practice to students wanting to work with children, youth, and their families in hospitals and pediatric health settings.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Odd Spring

EEC5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

EEC5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
EEC6216 - Communicative Arts in Early Childhood Education

Course Title
Communicative Arts in Early Childhood Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Study of young children's many forms of linguistic pictorial, and three-dimensional expression and communication.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring

EEC6269 - Play Development, Intervention, and Assessment

Course Title
Play Development, Intervention, and Assessment

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Explores play development, facilitation, intervention, and assessment.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Even Summer
**EEC6405 - Home-School-Community Interaction in Early Childhood Education**

**Course Title**
Home-School-Community Interaction in Early Childhood Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Explores the knowledge and skills necessary to form partnerships with families and the community to enhance the care and education of young children.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Fall

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**EEC6406 - Guiding and Facilitating Social Competence**

**Course Title**
Guiding and Facilitating Social Competence

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Provides students with techniques to facilitate and guide the behavior and emotional growth of young children.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring
EEC6525 - Early Childhood Program Administration

Course Title
Early Childhood Program Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing. Organizational and administrative theories as they relate to practice in selected early childhood services.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Occasional

EEC6606 - Global Issues in Early Childhood

Course Title
Global Issues in Early Childhood

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
This course is designed to provide our students with global perspectives on early childhood development and engage our students in international research activities.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall
EEC6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring

EEC6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

EEC6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
EEC6947 - Practicum in Child, Family, and Community Sciences

Course Title
Practicum in Child, Family, and Community Sciences

Credits Hours
6 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Field-based placement in a social service agency, childcare center, hospital, or school, working with a mentor family liaison to develop skills/ knowledge with diverse families.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Every Semester

EEC7055 - Advocacy, Public Policy, and Program Evaluation

Course Title
Advocacy, Public Policy, and Program Evaluation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the program or C.I.

Course Description
Research-based practice as it relates to child advocacy and changes in public policy.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
EEC7058 - Theoretical Foundations of Early Childhood

**Course Title**
Theoretical Foundations of Early Childhood

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the program or C.I.

**Course Description**
Theoretical bases of early childhood, philosophy, and current research in early childhood.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Fall

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EEC7409 - Current Trends in Child, Family, and Community Sciences

**Course Title**
Current Trends in Child, Family, and Community Sciences

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the program or C.I.

**Course Description**
This course examines emerging and current trends in the field of Child, Family, and Community Sciences.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Summer
EEC7673 - Early Childhood: Professional Publishing and Grant Writing

**Course Title**
Early Childhood: Professional Publishing and Grant Writing

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the program or C.I.

**Course Description**
This course examines the aspects of grant writing and writing of professional journals for the field of early childhood.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Fall

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EEC7676 - Critical Analysis of Early Childhood Research

**Course Title**
Critical Analysis of Early Childhood Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the program or C.I.

**Course Description**
This course examines research, theories, and trends in early childhood and how they influence perspectives related to young children.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring
EEC7945 - Early Childhood: Internship in Teaching and Supervision

Course Title
Early Childhood: Internship in Teaching and Supervision

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the program or C.I.

Course Description
Examine and practice the various roles of an early childhood college professor focusing on undergraduate teaching and supervision. May be used in the degree program a maximum of 4 times.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Every Semester

EEC7948 - Early Childhood: Internship in Research

Course Title
Early Childhood: Internship in Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the program or C.I.

Course Description
Examine and practice the various roles of an early childhood college professor focusing on research. May be used in the degree program a maximum of 4 times.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Every Semester
EEC7980 - Dissertation

Course Title
Dissertation

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
Jan-99

Prerequisites
- Student must be in candidacy.

Course Description
Dissertation.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Every Semester

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EEE - Eng: Electrical & Electronic

EEE5265 - Biomedical Effects and Applications of Electromagnetic Energy

Course Title
Biomedical Effects and Applications of Electromagnetic Energy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EEL 3470 or C.I. RF and microwave energy and their interaction with biological materials. Specific biomedical effects such as absorption, thermal therapy, hyperthermia, etc., will be discussed.

College
College of Engineering and Computer Science

Department

Terms of Offering
Even Spring
EEE5279 - Advanced Bioelectronics Systems

Course Title
Advanced Bioelectronics Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EEE 4309C or C.I. Advanced bioelectronics systems and techniques that enable recent biophysical and biomedical research will be discussed.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring

EEE5323 - Radio Frequency Integrated Circuit Design

Course Title
Radio Frequency Integrated Circuit Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEE 3307C and EEL 3470.

Course Description
This course introduce the principles, analysis, and design of Radio frequency (RF) integrated circuits for wireless communication systems.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall
EEE5332C - Thin Film Technology

Course Title
Thin Film Technology

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- EEE 3350 or equivalent.

Course Description
Presents the various thin film deposition techniques for the fabrication of microelectronic, semiconductor, and optical devices.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring

Current Fee Per Student
$70.00

EEE5352 - Semiconductor Material and Device Characterization

Course Title
Semiconductor Material and Device Characterization

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEE 3350 or C.I.

Course Description
Semiconductor material characterization resistivity, mobility, doping carrier lifetime, device properties, threshold voltage, interface charge of MOS devices, optical and surface characterization of films.

College
College of Engineering and Computer Science

Department

Terms of Offering
Odd Fall
EEE5353 - Semiconductor Device Modeling and Simulation

Course Title
Semiconductor Device Modeling and Simulation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• EEE 3307C.

Course Description
Large signal and small signal model development for semiconductor diodes, BJTs, and MOSFETs. Parameter extraction, numerical algorithm, and SPICE simulation are included.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring

EEE5356C - Fabrication of Solid-State Devices

Course Title
Fabrication of Solid-State Devices

Credits Hours
4

Lab/Studio/Field Work Hours
3

Prerequisites
• EEE 3350.

Course Description
Fabrication of microelectronic devices, processing technology, ion implantation and diffusion, device design, and layout. Laboratory includes device processing technology.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring
Fall

Current Fee Per Student
$70.00
**Course Title**
Operational Amplifiers

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEE 4309C.

**Course Description**

**College**
College of Engineering and Computer Science

**Department**

**Terms of Offering**
Even Fall

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**Course Title**
CMOS Analog and Digital Circuit Design

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEE 4309C.

**Course Description**
Advanced principles and design techniques for CMOS ICs including most recent published results.

**College**
College of Engineering and Computer Science

**Department**

**Terms of Offering**
Fall
EEE5390C - Full-Custom VLSI Design
Course Title
Full-Custom VLSI Design
Credits Hours
3
Lab/Studio/Field Work Hours
3
Course Description
EEE 3307C and EEE 3342C with a "C" (2.0) or better grade. Provide background in integrated devices, circuits, and digital subsystems needed for design and implementation of silicon logic chips.
College
College of Engineering and Computer Science
Department
Terms of Offering
Occasional

EEE5445 - Terahertz (THz) Integrated Systems
Course Title
Terahertz (THz) Integrated Systems
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EEL 4436.
Course Description
High-frequency nonlinear electronic devices, millimeter-wave and THz integrated circuits, broadband time- and frequency-domain signal generation and sampling techniques, on-chip antennas.
College
College of Engineering and Computer Science
Department
Terms of Offering
Fall
EEE5513 - Digital Signal Processing Applications

Course Title
Digital Signal Processing Applications

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4750.

Course Description
The design and practical consideration for implementing Digital Signal Processing Algorithms including Fast Fourier Transform techniques, and some useful applications.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring

EEE5542 - Random Processes I

Course Title
Random Processes I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 3552C and STA 3032.

Course Description
Elements of probability theory, random variables, and stochastic processes.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring
Fall
EEE5555 - Surface Acoustic Wave Devices and Systems

Course Title
Surface Acoustic Wave Devices and Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 3552C.

Course Description
Course discusses SAW technology which includes the physical phenomenon, transducer design and synthesis, filter design and performance parameters. Actual devices and communication systems are presented.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEE5557 - Introduction to Radar Systems

Course Title
Introduction to Radar Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 3552C.

Course Description

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring
EEE5781 - Cyber-Physical Technologies for Smart Communities
Course Title
Cyber-Physical Technologies for Smart Communities
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
✓ Graduate Standing, EEL 4781 or EEL 4515C or C.I.
Course Description
Introducing technologies that enable smart and connected communities; technologies include sensing, computing, communications, and device technologies related to smart grid, smart infrastructure, and intelligent transportation systems.
College
College of Engineering and Computer Science
Department
Terms of Offering
Fall

EEE5790 - Introduction to Secure Architectures
Course Title
Introduction to Secure Architectures
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
✓ EEL 4768.
Course Description
This course will provide the students with basic understanding of the state-of-the-art support for implementing security primitives in commodity processors. Specifically, the course focus on Intel's Safe-Guard Extension(SGX), ARM's TrustZone and AMD's SME and SEV.
College
College of Engineering and Computer Science
Department
Terms of Offering
Spring
Fall
EEE5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science

EEE6317 - Power Semiconductor Devices and Integrated Circuits
Course Title
Power Semiconductor Devices and Integrated Circuits
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EEE 3350 or equivalent or C.I.
Course Description
Fundamental understanding of modern power semiconductor devices and integrated circuits (ICs) in relation to their applications in power electronics systems.
College
College of Engineering and Computer Science
Department

Terms of Offering
Spring
EEE6326C - MEMS Fabrication Laboratory

Course Title
MEMS Fabrication Laboratory

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- C.I.

Course Description
Silicon Nitride and Poly-silicon Depositions, Photolithography, Dry and Wet etching processes, Metal depositions and etching, MEMS device design and fabrication.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEE6327 - Design of Video Coding Systems

Course Title
Design of Video Coding Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4768C and EEL 4750.

Course Description
VLSI architectures and image/video coding algorithms, image/video coding standards, and architectural issues related with area/power/performance.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring
EEE6338 - Advanced Topics in Microelectronics

Course Title
Advanced Topics in Microelectronics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Covers advanced topics in microelectronics such as semiconductor device physics, semiconductor device fabrication, and semiconductor device modeling.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEE6347 - Trustworthy Hardware

Course Title
Trustworthy Hardware

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EEE 5390C or EEL 5704 or C.I. Introduce the concept of trustworthy hardware. Review scientific publications in the area of trustworthy hardware. Design, analyze, and evaluate trustworthy embedded systems.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEE6358 - Advanced Semiconductor Device I
Course Title
Advanced Semiconductor Device I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEE 3350.

Course Description
First course in advanced semiconductor device physics and modeling. Main stream devices including junctions diode, bipolar transistor, and metal-oxide field-effect transistor.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring

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EEE6406 - Modern EDA Algorithms in VLSI
Course Title
Modern EDA Algorithms in VLSI

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4783.

Course Description
This course covers all of the most important aspects of modern Electronic Design Automation (EDA) software: logic synthesis, circuit placement, and routing algorithms. Students will not only learn theory but also gain hands-on experience by doing a software project.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring
EEE6475 - CMOS Analog and Digital Integrated Circuit Design

Course Title
CMOS Analog and Digital Integrated Circuit Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- EEE 4309C or C.I.

Course Description
The objective of this class is to teach the graduate students the principle and techniques of CMOS IC design for high performance, low power, and RF applications.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall

EEE6504 - Adaptive Digital Signal Processing

Course Title
Adaptive Digital Signal Processing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- EEE 5513 or C.I.

Course Description
Weiner filtering, Least Mean Square and Recursive Least Squares based algorithms, adaptive prediction and identification with applications such as echo cancellation, etc.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring
EEE6505 - Multidimensional Digital Processing

Course Title
Multidimensional Digital Processing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EEE 5513 or C.I. Multidimensional signals and systems. Two-dimensional transforms and filters. Image processing applications.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

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EEE6527 - Compressive Sensing

Course Title
Compressive Sensing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EEE 5542. This course offers a broad coverage of the emerging topic of compressive sensing. The focus of the course is on describing the ideas and techniques that have been developed in this field with emphasis on theoretical foundations, algorithm developments, and applications.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall
EEE6543 - Random Processes II
Course Title
Random Processes II
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EEE 5542.
Course Description
College
College of Engineering and Computer Science
Department
Terms of Offering
Occasional

EEE6558 - Advanced Radar Systems
Course Title
Advanced Radar Systems
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EEE 5557.
Course Description
Advanced radar concepts: electromagnetic propagation and target scattering and fading; radar signal processing - target parameter estimation and information extraction, and radar system design.
College
College of Engineering and Computer Science
Department
EEE6712 - Modeling and Analysis of Networked Cyber-Physical Systems

Course Title
Modeling and Analysis of Networked Cyber-Physical Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and (EEL 4781 or EEL 4515C) or C.I.

Course Description
Analysis, modeling and design of networked cyber-physical systems such as intelligent transportation systems and industrial control networks; stochastic hybrid systems, continuous and discrete system modeling approaches; industry standards in transportation, smart grid, industrial control, and their use and implication in design of distributed systems.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring

EEE6721 - Evolvable Hardware

Course Title
Evolvable Hardware

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EEL 5722C or C.I. Evolvable digital and analog computing hardware, including intrinsic and extrinsic reconfigurable architectures, self-adapting circuits, and autonomous computing architectures.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEE6780 - Advanced Topics in Real-Time Cyber Physical Systems

Course Title
Advanced Topics in Real-Time Cyber Physical Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 5862/4862.

Course Description
This course will provide students recent research in real-time and cyber-physical systems by exploring important papers in selected topics.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

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EEE7919 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department

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EEL - Engineering: Electrical
EEL5173 - Linear Systems Theory
Course Title
Linear Systems Theory
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EEL 3657.
Course Description
Models and properties of linear systems, transformation, controllability and observability, control and observer designs, MFD, and realization theory.
College
College of Engineering and Computer Science
Department
Terms of Offering
Spring

EEL5185 - System Identification
Course Title
System Identification
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EEL 3657 or C.I.
Course Description
Dynamic systems, models of time-invariant linear, time-varying and nonlinear systems, nonparametric frequency- and time-domain identification methods, kernel expansion techniques, parameter estimation methods, experiment design, and applications.
College
College of Engineering and Computer Science
Department
Terms of Offering
Spring
EEL5245 - Power Electronics
Course Title
Power Electronics
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
• EEE 4309C.
Course Description
Principles of power electronics, power semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cyclo-converters, applications.
College
College of Engineering and Computer Science
Department
Terms of Offering
Fall

EEL5250 - Power System Detection and Estimation
Course Title
Power System Detection and Estimation
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
• EEL 4216 or C.I.
Course Description
This is an advanced course to power engineering, designed to provide students with the knowledge of stability and outage detection and state estimation methods.
College
College of Engineering and Computer Science
Department
Terms of Offering
Occasional
EEL5255 - Advanced Power Systems Analysis

Course Title
Advanced Power Systems Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4216 or C.I.

Course Description
This is an advanced course in power systems engineering, designed to provide a student with the knowledge of steady-state analysis in power system operation.

College
College of Engineering and Computer Science

Department

Terms of Offering
Even Spring

EEL5268 - Communications and Networking for Smart Grid

Course Title
Communications and Networking for Smart Grid

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4515C.

Course Description
Introduction to smart grid communication infrastructure, communication technologies in smart grid, communication networking in smart grid, communication for vehicle-to-grid systems, secure communication and networking.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEL5272 - Biomedical Sensors

Course Title
Biomedical Sensors

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4750 or EEL 4832 or C.I.

Course Description
Study of engineering concepts behind the various biomedical sensors used to monitor a patient undergoing clinical therapy.

College
College of Engineering and Computer Science

Department
Department of Electrical and Computer Engineering

Terms of Offering
Occasional

EEL5291 - Distributed Control and Optimization for Smart Grid

Course Title
Distributed Control and Optimization for Smart Grid

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EEL 3657 and EEL 4216 or C.I. Electric power systems, transmission and distribution networks, voltage stability and VAR control, dispatch of distributed generation, optimization, frequency control, electricity markets and incentive controls.

College
College of Engineering and Computer Science

Department

Terms of Offering
Odd Fall
EEL5296 - Advanced Microgrid Design and Operation

**Course Title**
Advanced Microgrid Design and Operation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEL 4216.

**Course Description**
Advanced course to power systems engineering, designed to provide students with the knowledge of microgrid system fundamentals, design, and operation.

**College**
College of Engineering and Computer Science

**Department**
Department of Electrical and Computer Engineering

**Terms of Offering**
Occasional

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EEL5297 - Introduction to Smart Grid

**Course Title**
Introduction to Smart Grid

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- (EEE 3307C and EEL 3657) or EEL 4216 or C.I.

**Course Description**
Fundamentals of electric power systems, distributed generation and smart grid components, voltage control and VAR compensation, demand response, leader-follower optimization, resiliency.

**College**
College of Engineering and Computer Science

**Department**
Department of Electrical and Computer Engineering

**Terms of Offering**
Spring

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2021-2022 Graduate Catalog
EEL5432 - Satellite Remote Sensing

Course Title
Satellite Remote Sensing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 3470 or PHY 4324.

Course Description
Fundamentals of satellite remote sensing, orbits and geometry, radiative transfer theory, microwave and infrared sensing techniques, ocean, ice and atmosphere geophysical measurements.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEL5437C - Microwave Engineering

Course Title
Microwave Engineering

Credits Hours
4

Lab/Studio/Field Work Hours
3

Prerequisites
- EEL 3470 or C.I.

Course Description
Transmission line theory, Smith charts, S-parameters, simple impedance matching circuits, wave guides, resonators, basic microwave measurements.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall

Current Fee Per Student
$40.00
EEL5439C - RF and Microwave Active Circuits

Effective Term: 2021-2022 Graduate Catalog

Course Title
RF and Microwave Active Circuits

Credits Hours
4

Lab/Studio/Field Work Hours
3

Prerequisites
- EEL 4436C or EEL 5437C or equivalent.

Course Description
Transmission line, microwave network theory, impedance matching, noise, power gain amplifier, low noise amplifier, power amplifier, oscillator, mixer and microwave communication system.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring

Current Fee Per Student
$40.00

EEL5462 - Antenna Analysis and Design

Course Title
Antenna Analysis and Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 3470 or equivalent.

Course Description
Fundamentals of antennas; dipoles, loops, arrays, apertures, and horns. Analysis and design of various antennas.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring
EEL5582 - Fundamentals of Wireless Communications

Course Title
Fundamentals of Wireless Communications

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4515C and EEL 3021 Introduction to Randomness.

Course Description
Large and small scale radio propagation effects, performance of digital modulation over wireless channels, capacity analysis of wireless channels, signal processing techniques to mitigate fading effects and improve performance of wireless systems (diversity techniques, adaptive modulation, multiple antenna and MIMO systems).

College
College of Engineering and Computer Science

Department

Terms of Offering
Even Spring

EEL5625 - Applied Control Systems

Course Title
Applied Control Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
C.I. Designed to develop basic understanding of advanced control methods for nonlinear systems described by ordinary and partial differential equations and to expose recent results and ongoing research issues in the area of MEMS.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEL5630 - Digital Control Systems

Course Title
Digital Control Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 3657.

Course Description
Real-time digital control system analysis and design, Z-transforms, sampling and reconstruction, time and frequency response, stability analysis, digital controller design.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall

EEL5659 - Introduction to Sensors

Course Title
Introduction to Sensors

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 3123C.

Course Description
Basics of measurements, physics of energy transduction, sensor specifications (range, sensitivity, accuracy, repeatability, noise), applications, basics of signal conditioning.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall
EEL5669 - Introduction to Robotics and Autonomous Vehicles

Course Title
Introduction to Robotics and Autonomous Vehicles

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 5173 or C.I.

Course Description
Forward and inverse kinematics, velocity kinematics, dynamics, constrained motions, path and trajectory planning, position and trajectory control, single and multivariable control, introduction to force/impedance control, introduction to consensus-based control.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall

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EEL5690 - Medical Robotics

Course Title
Medical Robotics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 3657 or Medical students in their second year or later.

Course Description
Medical robots for minimally invasive surgery, kinematics, constrained workspace and dexterity, haptics, tele-operation and network based control, basics of laparoscopic surgery.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

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2021-2022 Graduate Catalog
EEL5706 - Resilient Computer System Design

Course Title
Resilient Computer System Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EEL 4768 or CDA 5106 or EEL 5708, or C.I. Advanced concepts in hardware/software fault tolerance: fault models, coding in computer systems, module and system level fault detection mechanisms, such as TMR, rollback, and recovery.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEL5722C - Field-Programmable Gate Array (FPGA) Design

Course Title
Field-Programmable Gate Array (FPGA) Design

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
EEE 3342C with a "C" (2.0) or better grade.

Course Description
FPGA architectures, design flow, technology mapping, placement, routing, reconfigurable computing applications, and evolvable hardware.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall
EEL5780 - Wireless Networks

**Course Title**
Wireless Networks

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEL 4781 or C.I.

**Course Description**
The wireless networking topics include: cellular networks, multiple access protocols, channel assignment and resource allocation, mobility and location management, handoffs, routing, authentication, call admission control and QoS provisioning, network layer issues, wireless data networking (WAP, GSM, GPRS, CDMA, WCDMA.).

**College**
College of Engineering and Computer Science

**Department**

**Terms of Offering**
Even Spring

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EEL5789 - Software-Defined Networking

**Course Title**
Software-Defined Networking

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEL 4781.

**Course Description**
Fundamentals of software-defined networking (SDN). Control, data, and management plane separation. Northbound and southbound APIs. Network function virtualization (NFV), network orchestration, service chaining. SDN and NFV protocols and controllers such as OpenFlow, OpenDaylight, Floodlight, and Open Network Operating System (ONOS).

**College**
College of Engineering and Computer Science

**Department**

**Terms of Offering**
Occasional
EEL5796 - Big Data Computer Architecture and Systems

Course Title
Big Data Computer Architecture and Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EEL 4768 or CGS 3763 or C.I. Computer hardware architecture and operating systems design, implementation and administrative techniques for big data computing platforms which run applications to analyze datasets of massive size and dimensionality.

College
College of Engineering and Computer Science

Department

Terms of Offering
Even Fall
Odd Spring

EEL5820 - Image Processing

Course Title
Image Processing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 2302, EEL 4750 or C.I.

Course Description
Two-dimensional signal processing techniques; pictorial image representation; spatial filtering; image enhancement and encoding; segmentation and feature extraction; introduction to image understanding techniques.

College
College of Engineering and Computer Science

Department

Terms of Offering
Odd Spring
EEL5825 - Pattern Recognition and Learning from Big Data
Course Title
Pattern Recognition and Learning from Big Data

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 3021 or EEL 5542

Course Description
Preliminaries of pattern recognition, Bayesian Decision Theory, linear discriminant functions, Neural Network approaches, decision tree classifiers, unsupervised learning and clustering, non-parametric techniques, and other topics reflecting the state-of-the art.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEL5860 - Software Requirements Engineering
Course Title
Software Requirements Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Excellent oral and written communication skills. Excellent problem solving skills. In-depth study of software requirements engineering within a process centered framework. Methods for requirements elicitation, analysis, description, and validation. Formal and informal specification.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEL5862 - Real-Time Systems

Course Title
Real-Time Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• COP 4600 or EEL 4768 or EEL 4742C.

Course Description
Introduction to specification, analysis, design, and validation techniques for real-time (operating) systems with an emphasis on real-time scheduling theory.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring

EEL5874 - Expert Systems and Knowledge Engineering

Course Title
Expert Systems and Knowledge Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• EEL 4872 or CAP 4630 C.I.

Course Description
Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring
EEL5917 - Directed Research  
**Course Title**  
Directed Research  

**Credits Hours**  
1 - 99  

**College**  
College of Engineering and Computer Science  

**Department**  

EEL5937ST1 - Introduction to Electronic Design Automation  
**Course Title**  
Introduction to Electronic Design Automation  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Course Description**  
Introduction to electronic design automation (EDA) for the synthesis of circuits based on transistor and memristor technology with a focus on algorithms and data structures.

EEL5937ST2 - Real-Time Systems  
**Course Title**  
Real-Time Systems  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Course Description**  
Introduction to specification, analysis, design, and validation techniques for real-time (operating) systems with an emphasis on real-time scheduling theory.

EEL5937ST3 - Attacks and Defenses in Secure Architectures  
**Course Title**  
Attacks and Defenses in Secure Architectures  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Course Description**  
The course will bring students insights on the cutting-edge research in processor security with the understanding of the interactions between software and the underlying hardware.
EEL5937ST4 - Power System Dynamics and Stability

Course Title
Power System Dynamics and Stability

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
This is an advanced course to power systems engineering designed to provide students with the knowledge of power system dynamics and stability.

EEL5937ST5 - Future Computing Systems for Emerging Workloads

Course Title
Future Computing Systems for Emerging Workloads

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Introduction to future computing systems based on emerging technology and its application to emerging workloads as artificial intelligence and big data.

EEL6026 - Optimization of Engineering Systems

Course Title
Optimization of Engineering Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and C.I.

Course Description
A unified treatment of optimization methods often used to solve problems in engineering and applied sciences. Software packages are used when appropriate.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEL6208 - Advanced Machines

Course Title
Advanced Machines

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4205.

Course Description
Theory of electric machines using reference frame transformations: Basic principles of dc and ac machines, including induction and synchronous, are included. Simulation techniques for steady state and dynamic performance analysis will be used to analyze operation of electric machines with solid state drives.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEL6246 - Power Electronics II

Course Title
Power Electronics II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 5245.

Course Description
Advanced topics in power electronics, soft-switching techniques, small-signal modeling of PWM and resonant converters, control techniques, power factor correction circuits.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEL6253 - Power System Resilience

**Course Title**
Power System Resilience

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEL 5255.

**Course Description**
This is an advanced course to power systems engineering, designed to provide students with the knowledge of power system resilience.

**College**
College of Engineering and Computer Science

**Department**

**Terms of Offering**
Occasional

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EEL6254 - Power Systems Reliability

**Course Title**
Power Systems Reliability

**Credits Hours**
3

**Prerequisites**
- EEL 4216

**Course Description**
Advanced course to power systems engineering, designed to provide a student with a comprehensive understanding of quantitative reliability evaluation of modern power systems.

**College**
College of Engineering and Computer Science

**Department**

**Terms of Offering**
Even Fall
EEL6257 - Data Analytics in Energy Systems

**Course Title**
Data Analytics in Energy Systems

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- EEL 5255 or equivalent with a grade "C" or above, or C.I.

**Course Description**
Graduate level course. Introductions of data analytical methods for power system applications. Topics include energy forecasting, state estimation, demand response, load disaggregation, asset management, power system cybersecurity, grid-interactive buildings, and solar energy.

**College**
College of Engineering and Computer Science

**Department**

**Terms of Offering**
Spring

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EEL6266 - Power System Optimization

**Course Title**
Power System Optimization

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEL 5255.

**Course Description**
This is an advanced course to power systems engineering designed to provide students with the knowledge of optimization technologies and their applications in power systems.

**College**
College of Engineering and Computer Science

**Department**
Department of Electrical and Computer Engineering

**Terms of Offering**
Occasional
EEL6269 - Advanced Topics in Power Engineering

Course Title
Advanced Topics in Power Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 6255.

Course Description
A current topic will be discussed such as power system transients, system protection, T&D, and dielectric engineering.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEL6272 - Smart Power Grids Protection

Course Title
Smart Power Grids Protection

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4216 or C.I.

Course Description
Different aspects of protection of smart grids. Provides a comprehensive understanding of protection of modern power systems including protection of renewable energies and protection of automated power systems.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring
EEL6278 - Attacks and Defenses in Secure Cyber-Physical Systems

Course Title
Attacks and Defenses in Secure Cyber-Physical Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL4294 Introduction to Smart Grid or equivalent or C.I.

Course Description
Topics to include basics of cyber-physical systems (CPSs), security challenges and issues for CPSs, and defense approaches to enhance their security.

College
College of Engineering and Computer Science

Department
Department of Electrical and Computer Engineering

Terms of Offering
Occasional

EEL6361 - Emerging Device Computing Architectures

Course Title
Emerging Device Computing Architectures

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Post-CMOS logic devices. Spintronic logic and memory systems. Memristor-based processing elements. Logic-In-Memory and non-Boolean computing approaches. System design and performance assessment, and applications.

College
College of Engineering and Computer Science

Department
Department of Electrical and Computer Engineering

Terms of Offering
Occasional
EEL6364 - Neuromorphic Computing Architecture, Circuit and Device

Course Title
Neuromorphic Computing Architecture, Circuit and Device

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EEL 5825 or EEE 5390 or C.I. Advanced concepts in neuromorphic computing architectures and its hardware implementations using nano-scale emerging spin-transfer torque and memristor devices.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall

EEL6425C - RF and Microwave Measurement Techniques

Course Title
RF and Microwave Measurement Techniques

Credits Hours
4

Lab/Studio/Field Work Hours
3

Prerequisites
- EEL 4436C or EEL 6482 or EEL 5439C or C.I.

Course Description
RF and Microwave components in wireless systems; i.e., antennas, passive components, active circuits, as well as noise, modulation are characterized by measurement and designed/verified by EM/circuit software.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall

Current Fee Per Student
$40.00
**EEL6481 - Numerical Techniques in Electromagnetics**

**Course Title**
Numerical Techniques in Electromagnetics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEL 6488 or C.I.

**Course Description**
Applications of finite difference methods (FDTD), finite element method, integral equation method (method of moments) to electromagnetics.

**College**
College of Engineering and Computer Science

**Department**

**Terms of Offering**
Occasional

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**EEL6482 - Electromagnetic Theory I**

**Course Title**
Electromagnetic Theory I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEL 5439C or C.I.

**Course Description**
Maxwell's equations, boundary conditions, propagation and reflection, electromagnetic theorems and principles, guided waves and scattering.

**College**
College of Engineering and Computer Science

**Department**

**Terms of Offering**
Fall
EEL6489 - Advanced Topics in Electromagnetics and Microwaves

Course Title
Advanced Topics in Electromagnetics and Microwaves

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Advanced and current topics in EM fields, antennas, and microwaves.

College
College of Engineering and Computer Science

Department
Department of Electrical and Computer Engineering

Terms of Offering
Occasional

EEL6504 - Communications Systems Design

Course Title
Communications Systems Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 6530.

Course Description
Information and coding theory. Modem design. Binary and M-ary modulations. Intersymbol interference and pulse shaping. DS and FS spread-spectrum systems.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits Hours</th>
<th>Lab/Studio/Field Work Hours</th>
<th>Prerequisites</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL6530 - Communication Theory</td>
<td>3</td>
<td>0</td>
<td>EEE 5542 or C.I.</td>
<td>Communication in the presence of noise; analog and pulse modulation; use of phase-locked loops, synthesizers, VCOs, system implementations.</td>
</tr>
<tr>
<td>EEL6532 - Information Theory and Coding</td>
<td>3</td>
<td>0</td>
<td>EEE 5542 or C.I.</td>
<td>Concepts regarding information: Covers entropy, channel capacity, Shannon's theorems, Fano's inequality, coding theory, linear, Hamming, and cyclic codes, Hamming, Singleton, Gilbert-Varshamov, and Plotkin Bounds.</td>
</tr>
</tbody>
</table>
EEL6537 - Detection and Estimation

Course Title
Detection and Estimation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EEE 5542. Use of hypothesis testing (Bayes, Minimax, Neyman-Pearson) and estimation theory (Bayes, Maximum-likelihood) for detecting or estimating signals in noise. Application in communications and radar.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEL6590 - Advanced Topics in Communications
Course Title
Advanced Topics in Communications

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Advanced and current topics in communications, such as coding theory, information theory, spread spectrum, etc.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEL6616 - Adaptive Control

**Course Title**
Adaptive Control

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEL 5173.

**Course Description**
System identification and adaptive control design, including identification algorithms, MRAC, STR, and stochastic adaptive control. Lyapunov stability and input-output stability.

**College**
College of Engineering and Computer Science

**Department**

**Terms of Offering**
Occasional

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EEL6618 - Probabilistic Methods for Neural Coding and Control

**Course Title**
Probabilistic Methods for Neural Coding and Control

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEE 5542 and EEL 5173, both with a C or better or C.I.

**Course Description**
This course provides an overview of advanced, state-of-the-art probabilistic methods used in the encoding/decoding of neural signals and control of neural systems.

**College**
College of Engineering and Computer Science

**Department**

**Terms of Offering**
Fall
EEL6619 - Nonlinear Robust Control and Applications
Course Title
Nonlinear Robust Control and Applications
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EEL 5173 and EEL 6621.
Course Description
Stability, performance and robustness of nonlinear systems with uncertainties, Lyapunov-based designs, recursive designs and nonlinear optimal designs.
College
College of Engineering and Computer Science
Department
Terms of Offering
Occasional

EEL6621 - Nonlinear Control Systems
Course Title
Nonlinear Control Systems
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EEL 5173.
Course Description
Phase plane descriptions of nonlinear phenomena, limit cycles, jump conditions, stability, describing functions, Liapunov and Popov theory, time and frequency domain analysis for nonlinear systems.
College
College of Engineering and Computer Science
Department
Terms of Offering
Even Fall
EEL6662 - Advanced Robotics

Course Title
Advanced Robotics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 5559 or C.I.

Course Description
Geometric Nonlinear Control, Control of Redundant Robots, Computer Vision and Vision-based control, Formation Control, and Cooperative Rules and Behaviors of Robotic Vehicles.

College
College of Engineering and Computer Science

Department

Terms of Offering
Odd Spring

EEL6667 - Mobile Robotic Systems

Course Title
Mobile Robotic Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 5173 or EEL 5630.

Course Description
Non-holonomic systems, kinematics and dynamics, trajectory planning and obstacle avoidance, canonical terms, control design, stability, performance, and robustness.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEL6671 - Modern and Optimal Control Systems

Course Title
Modern and Optimal Control Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 5173.

Course Description

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEL6674 - Optimal Estimation for Control

Course Title
Optimal Estimation for Control

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 5173 or C.I.

Course Description
Optimal filtering, smoothing, and prediction methods are analyzed with applications to a number of linear and nonlinear dynamic systems.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEL6675 - Stochastic Control

**Course Title**  
Stochastic Control

**Credits Hours**  
3

**Lab/Studio/Field Work Hours**  
0

**Prerequisites**  
- EEL 3657 and EEL 4612C.

**Course Description**  
Models and solution techniques for decision-making problems in the presence of uncertainty; optimal control of systems with stochastic dynamics with perfect and imperfect state information.

**College**  
College of Engineering and Computer Science

**Department**

**Terms of Offering**  
Spring

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EEL6683 - Cooperative Control of Networked Autonomous Systems

**Course Title**  
Cooperative Control of Networked Autonomous Systems

**Credits Hours**  
3

**Lab/Studio/Field Work Hours**  
0

**Prerequisites**  
- EEL5173 or consent of instructor.

**Course Description**  
Fundamentals of cooperative control theory for autonomous vehicles and agents, with emphasis on consensus, effects of intermittent and delayed communication/sensing network, and cooperative control designs.

**College**  
College of Engineering and Computer Science

**Department**

**Terms of Offering**  
Odd Fall
EEL6723 - Reconfigurable Logic Applications

Course Title
Reconfigurable Logic Applications

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 5722C or C.I.

Course Description
Field-programmable gate array (FPGA) architectures, reconfigurable computing applications, and emerging central processing unit CPU+FPGA hybrid platform. The overall objective is to investigate the state-of-the-art FPGA-based reconfigurable computing both from a hardware and software perspective.

College
College of Engineering and Computer Science

Department

Terms of Offering
Odd Spring

EEL6760 - Data Intensive Computing

Course Title
Data Intensive Computing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CDA 5106 or C.I.

Course Description
Data intensive computing and its enabling systems architectures such as MapReduce, cloud computing and storage, with a focus on system architecture, middleware and building blocks, programming models, algorithmic design, and application development.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEL6762 - Performance Analysis of Computer and Communication Systems

Course Title
Performance Analysis of Computer and Communication Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4742C and STA 3032 or C.I.

Course Description
Stochastic modeling and discrete-event simulation; Markov chains; networks of queues; Semi-Markov models; application to multiprocessor systems, switching and multi-user communications.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEL6785 - Computer Network Design

Course Title
Computer Network Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4768C or C.I.

Course Description
Network types and network protocols. Design of networks and analysis of their performance.

College
College of Engineering and Computer Science

Department

Terms of Offering
Fall
EEL6788 - Advanced Topics in Computer Networks

Course Title
Advanced Topics in Computer Networks

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 4781 or C.I.

Course Description
Advanced topics in the networking field, driven by the latest research and technology developments.

College
College of Engineering and Computer Science

Department

Terms of Offering
Odd Fall

EEL6812 - Introduction to Neural Networks

Course Title
Introduction to Neural Networks

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 5825 or EEL 4798 or EEL 4750 or C.I.

Course Description

College
College of Engineering and Computer Science

Department

Terms of Offering
Even Spring
EEL6843 - Machine Perception

Course Title
Machine Perception

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 5820 or EEL 5825 or C.I.

Course Description
Advanced methods of machine understanding; simulation of intelligent machine systems; automatic recognition systems; visual tracking systems; multispectral feature analysis.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEL6865 - Architecture and Design of Software Intensive Systems

Course Title
Architecture and Design of Software Intensive Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I.; and EEL 4851C or equivalent; and EEL 4884C or EEL 5881 . In depth study of software architecture and design of engineering complex software-intensive systems. Theory and practice.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEL6875 - Autonomous Agents
Course Title
Autonomous Agents

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• EEL 4872 or CAP 4630 or C.I.

Course Description
Agent architectures, including behavioral, decision theoretic and logic (BDI) based. Multi-agent systems, agent communication languages. Negotiation, argumentation, coalition formation. Project oriented.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional

EEL6878 - Modeling and Artificial Intelligence
Course Title
Modeling and Artificial Intelligence

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• EEL 4872 or CAP 4630 or C.I.

Course Description
Introduction to artificial intelligence techniques applied to computer-based modeling, simulation, and training.

College
College of Engineering and Computer Science

Department

Terms of Offering
Occasional
EEL6883 - Software Engineering II

Course Title
Software Engineering II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EEL 5881 or equivalent; C.I.

Course Description
Continuation of EEL 5881. Emphasis on term projects and case studies.

College
College of Engineering and Computer Science

Department

Terms of Offering
Spring

EEL6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department

EEL6918 - Directed Research

Course Title
Directed Research

Credits Hours
0 - 99

College
College of Engineering and Computer Science

Department
EEL 6938 - ST: Integrated Grid-Tied PV Systems with Storage

Course Title
ST: Integrated Grid-Tied PV Systems with Storage

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- EEL 3004.

Course Description
This course is designed to equip students with knowledge on new energy technologies, specifically on grid-connected PV systems and energy storage systems.

College
College of Engineering and Computer Science

Department

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EEL 7919 - Research

Course Title
Research

Credits Hours
0 - 99

College
College of Engineering and Computer Science

Department

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EES - Environmental Engineering Science

2021-2022 Graduate Catalog
EES5318 - Industrial Ecology

Course Title
Industrial Ecology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ENV 3001, ENV 4341.

Course Description
Discussion of similarities between ecological systems and industrial systems with the emphasis on material cycles, energy flow, pollution prevention, organizational structures, and environmental management.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

EES5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

EES5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering
EEX5051 - Exceptional Children in the Schools

**Course Title**
Exceptional Children in the Schools

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Senior standing or C.I.

**Course Description**
Characteristics, definitions, educational problems, and appropriate educational programs for the exceptional children in schools.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Summer
Fall

EEX5702 - Planning Curriculum for Pre-Kindergarten Children with Disabilities

**Course Title**
Planning Curriculum for Pre-Kindergarten Children with Disabilities

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Focus on curriculum planning; developmentally appropriate practices and implementation of individualized instruction for pre-kindergarten children with disabilities.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring
EEX5750 - Communication with Parents and Agencies

**Course Title**
Communication with Parents and Agencies

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Presentation of methods of interacting with community agencies, supporting and collaborating with families, developing a case management system, and facilitating program transition.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Summer

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EEX5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

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EEX5937 - Special Topics in Except Education

**Course Title**
Special Topics in Except Education

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education
EEX6017 - Typical and Atypical Applied Child Development

**Course Title**
Typical and Atypical Applied Child Development

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Focus on the stages and sequence of development and the impact of disabilities and biomedical risk factors on learning and development.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Fall

EEX6061 - Instructional Strategies Pre-K-6

**Course Title**
Instructional Strategies Pre-K-6

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
A varying exceptionalities strategies (SLD, EH, MH) course using a cross-categorical model. The course is concerned with the pre-k handicapped child through grade 6. A required field experience must be completed with the class depending on prior experience.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring
EEX6065 - Programming for Students with Disabilities at the Secondary Level

**Course Title**
Programming for Students with Disabilities at the Secondary Level

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I. and EEX 5051.

**Course Description**
Addresses instructional needs of secondary students with disabilities. It provides information on instruction, academic and social-personal skills, and transition planning.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring

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EEX6107 - Teaching Spoken and Written Language

**Course Title**
Teaching Spoken and Written Language

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Diagnosis and remediation of spoken and written language problems found in the exceptional populations. Overview of alternative methods of communication.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Fall
EEX6218 - Diagnostic Assessment and Intervention Planning in Exceptional Education

Course Title
Diagnosis Assessment and Intervention Planning in Exceptional Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
This course develops advanced instructional and intervention planning and decision-making knowledge and skills using school and classroom-based instructional data in reading and mathematics.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer

EEX6222 - Observation and Assessment of Young Children

Course Title
Observation and Assessment of Young Children

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Study of formal and informal observation and assessment.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
EEX6246 - Nature of Autism: Theory and Educational Practice

Course Title
Nature of Autism: Theory and Educational Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Theory and teaching applications for students with autism spectrum disorders includes 20 hour field-based experience. Designed for application towards requirements for State Endorsement in Autism.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall

EEX6295 - Assessment and Curriculum Prescriptions for the Exceptional Population

Course Title
Assessment and Curriculum Prescriptions for the Exceptional Population

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Addresses contemporary assessments and models for assessing exceptional children. Also addresses curriculum and prescription.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
EEX6297 - Assessment, Diagnosis, and Curriculum Prescriptions for Students with Autism

Course Title
Assessment, Diagnosis, and Curriculum Prescriptions for Students with Autism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Contemporary assessments and models for assessing exceptional children to address curriculum and prescription. Specific emphasis is placed on assessment of students with autism spectrum disorders.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall

EEX6342 - Seminar-Critical Issues in Special Education

Course Title
Seminar-Critical Issues in Special Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
EEX 5051.

Course Description
An examination of research and current literature dealing with some of the critical issues in all areas of special education.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
EEX6524 - Organization and Collaboration in Special Ed

Course Title
Organization and Collaboration in Special Ed

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• C.I.

Course Description
Addresses evaluation, assessment, personnel resource, grant writing, and other administrative issues. Presents collaborative models of intervention and service delivery.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring

EEX6608 - Concepts and Principles in Applied Behavior Analysis

Course Title
Concepts and Principles in Applied Behavior Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
This course is designed to develop students' competence in the use of technical terminology pertaining to the concepts and principles of behavior analysis. This course includes content tailored to fulfill the concepts and principles of behavior analysis coursework requirements of the Behavior Analyst Certification Board® (http://www.bacb.com) fourth edition task list.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall
EEX6612 - Methods of Behavioral Management

**Course Title**
Methods of Behavioral Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Analysis of the principles of behavior management and precision teaching and application of these principles to the solving of classroom management problems.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Fall

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EEX6618 - Single Case Research Methodology

**Course Title**
Single Case Research Methodology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
This is an initial course in the use of single subject research methodology. It includes an overview of behavioral measurement, single subject research designs, and methods of data analysis. This course includes content tailored to fulfill the behavior analysis coursework requirements of the Behavior Analyst Certification Board® (http://www.bacb.com).

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring
EEX6619 - Advanced Behavior Analysis  
**Course Title**
Advanced Behavior Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
EEX 6612. This course prepares practitioners to use the principles of advanced behavior analysis (ABA) to assess and teach communication skills to individuals with autism and develop knowledge of current augmentative and alternative communication (AAC) technology.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Summer

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EEX6668 - Radical Behaviorism  
**Course Title**
Radical Behaviorism

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
This course is designed to provide students with a complex understanding of the differences between radical behaviorism and other philosophies, and their impact on science. This course includes content tailored to fulfill the coursework requirements of the Behavior Analyst Certification Board® (http://www.bacb.com) fourth edition task list.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Summer
Spring
EEX6669 - Supervision and Personnel Management in Applied Behavior Analysis

Course Title
Supervision and Personnel Management in Applied Behavior Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
3

Course Description
Prepare students in Behavior Management using Performance-based assessment, performance-based measures, and performance management systems. Course requirements are consistent with Applied Behavior Analysis International for the Verified Course Sequence coursework in Applied Behavior Analysis.

College
College of Community Innovation and Education

Department
School of Teacher Education

EEX6747 - Ethics and Legal Issues in Applied Behavior Analysis

Course Title
Ethics and Legal Issues in Applied Behavior Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
This course is designed to develop students' competence in applying behavior analytic principles in both a legal and ethical manner. This course includes content tailored to fulfill the Ethical and Professional Conduct coursework requirements of the Behavior Analyst Certification Board® (http://www.bacb.com), fourth edition task list.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
EEX6759 - Transition Planning and Interdisciplinary Teaming for Students with Disabilities

Course Title
Transition Planning and Interdisciplinary Teaming for Students with Disabilities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Interdisciplinary teaming to include available resources, the recognition of the role of parents, teachers, and other professionals; functional community-based curriculum; employability skills; and transition planning.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
Fall

EEX6863 - Supervised Teaching Practicum with Exceptional Children

Course Title
Supervised Teaching Practicum with Exceptional Children

Credits Hours
2 - 7

Prerequisites
- Bachelor's degree, approved program, and C.I.

Course Description
Supervised observation and teaching of an exceptional student.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Occasional
EEX6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

EEX6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

EEX6938 - Special Topics in Except Education

Course Title
Special Topics in Except Education

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
EEX7320 - Program Evaluation and Planning in Special Education

Course Title
Program Evaluation and Planning in Special Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Education PhD program.

Course Description
Focus on evaluation models and summative program evaluations. Students are required to demonstrate knowledge of systemic program planning, models of program funding and program change.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Odd Spring

EEX7428 - Personnel Preparation: Special Education

Course Title
Personnel Preparation: Special Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Education PhD program.

Course Description
Focus on issues and strategies in preparation of teachers for students with disabilities; course development, implementation, adaptations/modifications for pre-service personnel with disabilities.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
EEX7466 - Universal Design for Learning (UDL): A framework for Exceptional Education Research

**Course Title**
Universal Design for Learning (UDL): A framework for Exceptional Education Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- IDS 7501 or equivalent.

**Course Description**
Examines learner variability and barriers to effective instruction and assessment. The Universal Design for Learning (UDL) framework is presented as a means to design and implement interventions maximizing the accessibility and learning outcomes of individuals with and without disabilities.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring

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EEX7527 - Professional Writing Grant Writing in Special Education

**Course Title**
Professional Writing Grant Writing in Special Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Education PhD program.

**Course Description**
Writing for professional publication in special education; review and edit works of others; grant writing and review for private foundations and state and federal agencies.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring
Fall
EEX7536 - Seminar: Urban Special Education Leadership

**Course Title**
Seminar: Urban Special Education Leadership

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Doctoral standing.

**Course Description**
Focus on how districts, schools, and communities can improve educational outcomes for children with disabilities and children who are at risk in urban settings.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Summer

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EEX7766 - Technology Research Training in Special Education

**Course Title**
Technology Research Training in Special Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Education PhD program.

**Course Description**
Computer-assisted instruction and technology with special needs populations, demonstrates emerging technologies and provides instruction in personal productivity tools for special educators in higher education.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Even Spring
EEX7865 - Internship in College Instruction in Special Education

Course Title
Internship in College Instruction in Special Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Education PhD program.

Course Description
Supervised experience in design, delivery, and evaluation of a college course in special education or disability services.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall

EEX7866 - Internship in Practicum Supervision in Special Education

Course Title
Internship in Practicum Supervision in Special Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Education PhD program.

Course Description
Supervised experience in observing, supervising, and evaluating student teacher performance in a practicum setting in special education or disability services.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall

2021-2022 Graduate Catalog
**EEX7919 - Research**  
**Course Title**  
Research  
**Credits Hours**  
1 - 99  
**College**  
College of Community Innovation and Education  
**Department**  
School of Teacher Education

**EEX7936 - Current Issues Trends in Special Education**  
**Course Title**  
Current Issues Trends in Special Education  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Admission to PhD Education program.  
**Course Description**  
Analysis and review of contemporary issues and trends in special education, selecting and defending a position on efficacy, legal, ethical, social, and policy issues.  
**College**  
College of Community Innovation and Education  
**Department**  
School of Teacher Education  
**Terms of Offering**  
Fall
**EEX7947 - Internship in Special Education Policy and Leadership**

**Course Title**
Internship in Special Education Policy and Leadership

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Admission to Exceptional Education track of the Ph.D. in Education or C.I.

**Course Description**
Supervised internship experience in policy analysis and application in special education and disability services. May be used in the degree program a maximum of 3 times only when course content is different.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Summer

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**EGC - Guidance and Counseling**

**EGC5917 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**EGC5937 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

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2021-2022 Graduate Catalog
EGC6431 - Guiding Human Relationships I
Course Title
Guiding Human Relationships I
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
• C.I.
Course Description
Human relationship skills that will enhance intrapersonal and interpersonal relationship skills in classrooms.
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology
Terms of Offering
Occasional

EGC6432 - Guiding Human Relationships II
Course Title
Guiding Human Relationships II
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
• C.I.
Course Description
Advanced human relationship skills that will enhance intrapersonal and interpersonal relationship skills in classrooms.
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology
Terms of Offering
Occasional
EGC6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology

EGC6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology

EGC6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology

EGI - Education: Gifted

EGI5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Learning Sciences & Educational Research

2021-2022 Graduate Catalog
EGI5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

EGI6051 - Understanding the Gifted/Talented Student

Course Title
Understanding the Gifted/Talented Student

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
A study of characteristics of the gifted/talented students; theories and research; identification procedures; special problems; educational forces.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional
EGI6245 - Curriculum and Instruction for Teaching Advanced, Gifted, and Talented Learners

**Course Title**
Curriculum and Instruction for Teaching Advanced, Gifted, and Talented Learners

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
This course will develop knowledge, skills, and evidenced-based strategies to design curriculum appropriate for the advanced, gifted, and talented learner through a range of services.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Fall

EGI6246 - Education of Special Populations of Gifted Students

**Course Title**
Education of Special Populations of Gifted Students

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Focuses on needs of gifted subgroups, including females, minorities, handicapped, and students with learning and emotional problems. S.E.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Occasional
EGI6247 - Developing Advanced Programs and Services: Acceleration and Enrichment for Academically and Intellectually Gifted Learners

**Course Title**
Developing Advanced Programs and Services: Acceleration and Enrichment for Academically and Intellectually Gifted Learners

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Servicing and teaching academically gifted learners through content acceleration and enrichment. (Clusters, honors, advanced coursework, at middle and secondary levels; compacted elementary curricula).

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Summer

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EGI6305 - Theory and Development of Creativity

**Course Title**
Theory and Development of Creativity

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
This course focuses on the concept of creativity and explores various means of integrating creative strategies and instructional content areas.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Occasional
EGI6417 - Guidance and Counseling Strategies for Teachers of Gifted and Talented Individuals

**Course Title**
Guidance and Counseling Strategies for Teachers of Gifted and Talented Individuals

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Guidance and counseling procedures and strategies for teachers of gifted/talented students, including student group dynamics; communication with parents; career goals; alternative educational opportunities.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Spring

EGI6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

EGI6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research
EGI6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

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**EGM - Engineering Science**

EGM6653 - Theory of Elasticity and Plasticity

**Course Title**
Theory of Elasticity and Plasticity

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EML 5237.

**Course Description**
Review of stress and strain; solution by tensor stress and potential functions; linear and nonlinear elasticity; constitutive models; for elastic-(visco)plastic solids.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Occasional

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**EIN - Engineering: Industrial**
EIN5108 - The Environment of Technical Organizations

Course Title

The Environment of Technical Organizations

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- Graduate status or CI; EGS 4624 recommended.

Course Description

Presentation and investigation into the principles required to transform technologists into managers focusing on engineers, scientists, and other professionals providing services in technically-oriented organizations.

College

College of Engineering and Computer Science

Department

Department of Industrial Engineering and Management Systems

Terms of Offering

Fall

EIN5115 - Engineering MIS Control Systems in Healthcare

Course Title

Engineering MIS Control Systems in Healthcare

Credits Hours

3

Lab/Studio/Field Work Hours

0

Course Description

Consideration is given to the organizational, managerial, and economic aspects of MIS design, implementation and use for planning and control functions in large-scale Health Systems.

College

College of Engineering and Computer Science

Department

Department of Industrial Engineering and Management Systems
EIN5117 - Management Information Systems I

Course Title
Management Information Systems I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
The design and implementation of computer-based Management Information Systems. Consideration is given to the organizational, managerial, and economic aspects of MIS.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring

EIN5140 - Project Engineering

Course Title
Project Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Role of engineer in project management with emphasis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance control.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring
Fall
EIN5248 - Ergonomics

Course Title
Ergonomics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EIN 4360 or C.I.

Course Description
Applications of anthropometry, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the design of industrial tools, equipment, and workstations.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Fall

EIN5251 - Usability Engineering

Course Title
Usability Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 3032 or equivalent.

Course Description
Usability paradigms/principles; cognitive walk-throughs; heuristic, review-based, model-based, empirical and storyboard evaluation; techniques; query techniques; laboratory techniques; and field study approaches.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring
EIN5255C - Interactive Simulation

**Course Title**
Interactive Simulation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Introduction to significant topics relative to the development and use of simulators for knowledge transfer in the technical environment.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Fall

EIN5346 - Engineering Logistics

**Course Title**
Engineering Logistics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ESI 5306 or ESI 4312.

**Course Description**
Study of the logistics life cycle involving planning, analysis and design, testing, production, distribution, and support.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Occasional
**EIN5356 - Cost Engineering**

**Course Title**
Cost Engineering

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Cost estimation and control of engineering systems throughout the product life cycle.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Occasional

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**EIN5917 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems
EIN6182 - Engineering Management

Course Title
Engineering Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EIN 5140, EIN 5108, EIN 6370.

Course Description
Capstone investigation and analysis of topics for improving engineering enterprises in national and international competitive environments. Quantitative engineering tools/methods will be used.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring

EIN6215 - System Safety Engineering and Management

Course Title
System Safety Engineering and Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring
EIN6258 - Human Computer Interaction

**Course Title**
Human Computer Interaction

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Course Description**
Computer task analysis, human-computer design guidelines and history, usability testing, next generation user interfaces, human-virtual environment interaction.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Fall

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EIN6271 - Human Reliability

**Course Title**
Human Reliability

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ESI 5219.

**Course Description**
Methods for analysis and quantification of human performance; human error probability; applications to design and analysis of new and redesign of existing aviation, industrial, management, and power generation systems.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Occasional
EIN6326 - Technology Strategy

Course Title
Technology Strategy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status.

Course Description
This course is designed to expose engineering management students to cutting edge tools and concepts for managing technology and product strategy. May be repeated for credit.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Occasional

EIN6336 - Production and Inventory Control

Course Title
Production and Inventory Control

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EIN 4333C or equivalent.

Course Description
Review of models and techniques used in forecasting, production control and inventory control. Includes aggregate planning, production scheduling, inventory management, models, etc.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring
EIN6339 - Operations Engineering

Course Title
Operations Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EIN 6357, ESI 5306, or C.I.

Course Description
Methods and models for design, management, and control of operational processes in engineering and technical organizations. Includes considerations of quality, productivity, performance, benchmarking, constraints, and strategy.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Fall

EIN6357 - Advanced Engineering Economic Analysis

Course Title
Advanced Engineering Economic Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EGN 3613; STA 3032 or equivalent.

Course Description
Topics include measuring economic worth, economic optimization under constraints. Analysis of economic risk and uncertainty, foundations of utility functions.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring
Fall
EIN6358 - Engineering Economic Analysis in Health Systems

Course Title
Engineering Economic Analysis in Health Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Healthcare Systems Engineering track of the Industrial Engineering MS program.

Course Description
Topics include Grossman's model on health economics, economics, economic optimization, economic risk, and uncertainty, utility functions, and the allocation of resources within health systems.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring

EIN6370 - Innovation in Engineering Design

Course Title
Innovation in Engineering Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Explores techniques for innovation and presents methods for engineers to foster innovation when designing new products or systems.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Fall
**EIN6528 - Simulation Based Life Cycle Engineering**

**Course Title**
Simulation Based Life Cycle Engineering

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EIN 5255C or DIG 5875C or EIN 5117.

**Course Description**
This course examines the phenomenon of simulation based life cycle engineering. Case studies illustrate infrastructure and organization change necessary to gain operational and strategic advantage.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Occasional

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**EIN6893 - Healthcare Systems Engineering Capstone**

**Course Title**
Healthcare Systems Engineering Capstone

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Previous 9 courses of the HSE MS.

**Course Description**
Capstone course to depict role of a healthcare systems engineer with emphasis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Summer
Fall
EIN6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

EIN6918 - Directed Research

Course Title
Directed Research

Credits Hours
0 - 99

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

EIN6936 - Seminar in Advanced Industrial Engineering

Course Title
Seminar in Advanced Industrial Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Topical seminar. Potential topic areas include quality function deployment, axiomatic design, design quality, benchmarking, re-engineering processes.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Occasional
EIN6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

EIN6950 - Industrial and Systems Engineering Capstone

**Course Title**
Industrial and Systems Engineering Capstone

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
ESI 6551 and (ESI 5219 or ESI 6247) and department consent. Project-based course where students work on theoretical and applied research issues related to industrial and systems engineering.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Spring
Fall

EIN7919 - Research

**Course Title**
Research

**Credits Hours**
1 - 99

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

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**ELD - Education: Specific Learning Disabilities**

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2021-2022 Graduate Catalog
ELD5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

ELD5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
School of Teacher Education

ELD6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

ELD6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education
ELD6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education

EMA - Engineering: Materials

EMA5060 - Polymer Science and Engineering

Course Title
Polymer Science and Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EGN 3365.

Course Description
Structure and properties of polymers, preparation and processing of polymers, mechanical properties, use in manufacturing and high tech applications.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional
EMA5104 - Intermediate Structure and Properties of Materials

**Course Title**
Intermediate Structure and Properties of Materials

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EGN 3365.

**Course Description**

**College**
College of Engineering and Computer Science

**Department**
Department of Materials Science and Engineering

**Terms of Offering**
Fall

EMA5106 - Metallurgical Thermodynamics

**Course Title**
Metallurgical Thermodynamics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EGN 3365.

**Course Description**
Laws of thermodynamics, phase equilibria, reactions between condensed and gaseous phases, reaction equilibria in condensed solution and phase diagrams.

**College**
College of Engineering and Computer Science

**Department**
Department of Materials Science and Engineering

**Terms of Offering**
Occasional
EMA5108 - Surface Science
Course Title
Surface Science
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EGN 3365 or EMA 3706 or C.I.
Course Description
This course focuses on the physics underlying the techniques used to analyze the surface region of materials. This course also addresses the fundamentals of these processes.
College
College of Engineering and Computer Science
Department
Department of Materials Science and Engineering
Terms of Offering
Occasional

EMA5140 - Introduction to Ceramic Materials
Course Title
Introduction to Ceramic Materials
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EGN 3365.
Course Description
Uses, structure, physical and chemical properties, and processing of ceramic materials. Discussions will include recent developments for high technology applications.
College
College of Engineering and Computer Science
Department
Department of Materials Science and Engineering
Terms of Offering
Occasional
EMA5317 - Materials Kinetics

Course Title
Materials Kinetics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Mass and thermal transport, phase transformations and Arrhenius rate processes.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional

EMA5326 - Corrosion Science and Engineering

Course Title
Corrosion Science and Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EGN 3365.

Course Description
Electrochemical principles and applications to detecting and monitoring corrosion processes. Various forms of corrosion, their causes and control. Techniques of corrosion protection.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional
EMA5415 - Electronic Principles of Materials Properties

Course Title
Electronic Principles of Materials Properties

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EGN 3365 or EMA 3706 or C.I.

Course Description
This course will cover the fundamental concepts of band structure and bonding of materials, electrical and thermal conduction in metals, semiconductors and dielectric. The interaction between light and matter will be addressed and the important concepts such as excitons will be introduced.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional

EMA5504 - Modern Characterization of Materials

Course Title
Modern Characterization of Materials

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- EMA 5104 or C.I.

Course Description
This course overviews the modern characterization instrumentation for contemporary materials science and engineering studies and aims to understand their scientific significance, and operation principles, and technological applications.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional
EMA5505 - Scanning Electron Microscopy

**Course Title**
Scanning Electron Microscopy

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- EMA 5104 or C.I.

**Course Description**
A review of electron optics, beam/specimen interactions, image formation, X-ray analysis, specimen preparation, microelectronic applications and crystallography in the SEM.

**College**
College of Engineering and Computer Science

**Department**
Department of Materials Science and Engineering

**Terms of Offering**
Occasional

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EMA5584 - Biomaterials

**Course Title**
Biomaterials

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EGN 3365.

**Course Description**
Properties of natural biological materials and their relation to microstructure, biocompatibility, specific applications in orthopedic, cardiovascular, visual, neural, and reconstruction implants.

**College**
College of Engineering and Computer Science

**Department**
Department of Materials Science and Engineering

**Terms of Offering**
Even Spring

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2021-2022 Graduate Catalog
EMA5585 - Materials Science of Thin Films

**Course Title**
Materials Science of Thin Films

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Interaction of thin film processing techniques with the structure and properties of the materials deposited.

**College**
College of Engineering and Computer Science

**Department**
Department of Materials Science and Engineering

**Terms of Offering**
Odd Fall

EMA5586 - Photovoltaic Solar Energy Materials

**Course Title**
Photovoltaic Solar Energy Materials

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EGN 3365.

**Course Description**
Materials properties basic to photovoltaics, structures, homojunction, heterojunction, and surface barrier solar cells, AMDS-1D modeling of c-Si, GaAs bulk and a-Si:H, CIGS, and CdTe thin film solar cells. May be repeated for credit.

**College**
College of Engineering and Computer Science

**Department**
Department of Materials Science and Engineering

**Terms of Offering**
Occasional
EMA5588 - Biocompatibility of Materials

Course Title
Biocompatibility of Materials

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EGN 3365 or C.I.

Course Description
Biocompatibility and bioactivity; cell-biomaterials interactions; engineering bone and cartilage; soft-tissue replacements; total hip replacements; nanostructured biomaterials, imaging techniques, preservation techniques for biomaterials, MSDS and FDA compatibility data.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional

EMA5610 - Laser Materials Processing

Course Title
Laser Materials Processing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EGN 3343 or EMA 5106 or C.I.

Course Description
Laser beam optics; laser-material interactions; laser heating, melting, vaporization. Plasma formation; laser surface treatment, welding, machining; laser material synthesis. Thin film deposition, crystal growth.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional
EMA5705 - High Temperature Materials

Course Title
High Temperature Materials

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EMA 5104 or C.I.

Course Description
The course covers the principles of strengthening alloys for high temperature service, alloy and process selection, alloy development and design principles for elevated temperature applications.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional

EMA5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

EMA5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering
EMA6017 - Nanostructured Materials

Course Title
NANOstructured Materials

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EMA 5104 or C.I.

Course Description
The course covers the science of the building blocks of nanostructured materials, their chemical and structural characterization, material behavior, and the technological implications of these materials.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional

EMA6126 - Physical Metallurgy

Course Title
Physical Metallurgy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EMA 5104 or EMA 3124.

Course Description
Analytical methods in crystallography, dislocation theory, annealing, solid solutions, phases and phase diagrams, ferrous and non-ferrous alloy systems.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Fall
EMA6129 - Solidification and Microstructure Evolution
Course Title
Solidification and Microstructure Evolution

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EML 4142, EMA 5104, or C.I. Cooling process, nucleation, spinodal decomposition, interface instability, cells, dendrites, eutectic and peritectic microstructures, solute segregation, modeling project.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional

EMA6130 - Advanced Phase Transformations in Materials
Course Title
Advanced Phase Transformations in Materials

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EMA 5104 and EMA 5106 or C.I.

Course Description
Principles of thermodynamics, kinetics, and phase diagrams for the understanding of diffusion and diffusionless phase transformations in ferrous and non-ferrous alloys.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional
EMA6136 - Diffusion in Solids

Course Title
Diffusion in Solids

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EMA 5104 and EML 5060 or C.I.

Course Description
Fundamental equations and mechanisms of diffusion. Diffusion in metallic, ionic, and semiconducting materials with emphasis on measurement techniques.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional

EMA6149 - Imperfections in Crystals

Course Title
Imperfections in Crystals

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EMA 5104 or C.I.

Course Description
Describes point, line, and planar defects in crystalline materials. Discusses vacancy formation, dislocation theory, plasticity, grain boundary modeling, and the interaction between defects.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional
EMA6319 - Colloids and Interface Engineering

Course Title
Colloids and Interface Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EMA 5104 or EMA 5060 or C.I.

Course Description
Surface and interfacial tension of liquids, self-assembled monolayers, applications of scanning probe microscopes in interfaces, forces in colloidal systems, stability of macro emulsions, formation and properties of microemulsions, self-assembly.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional

EMA6516 - X-ray Diffraction and Crystallography

Course Title
X-ray Diffraction and Crystallography

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EMA 5104 or C.I.

Course Description
Theory and experimental techniques of X-ray diffraction of materials. Topics include the structure of crystalline solids, including lattices, point group and space group theory.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional
EMA6518 - Transmission Electron Microscopy

Course Title
Transmission Electron Microscopy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EMA 5104 or C.I.

Course Description
An introduction to the theory and operation of a transmission electron microscope. Electron diffraction techniques, contrast from images, analytical microscopy, and specimen preparation.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional

EMA6605 - Materials Processing Techniques

Course Title
Materials Processing Techniques

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EMA 5104 or C.I.

Course Description
Phase transformation; grain size; surface, powder, and composite processing; shape forming; polymer processes; liquid and vapor phase synthesis; radiation-induced processes, mathematical analysis, project.

College
College of Engineering and Computer Science

Department
Department of Materials Science and Engineering

Terms of Offering
Occasional
EMA6611 - Optoelectronics Materials Processing

**Course Title**
Optoelectronics Materials Processing

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EMA 4413, graduate standing or C.I.

**Course Description**
Electronic Theory for Materials Preparation, Doping, Metallization, Effect of Materials Properties on Device (eg. Solar Cells, LEDs, and Detectors) Performances.

**College**
College of Engineering and Computer Science

**Department**
Department of Materials Science and Engineering

**Terms of Offering**
Occasional

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EMA6626 - Mechanical Behavior of Materials

**Course Title**
Mechanical Behavior of Materials

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EMA 5104 or EMA 4223.

**Course Description**
Fundamentals of the mechanical behavior of materials; advanced treatment of elasticity, plasticity, viscoelasticity, creep, fracture and fatigue in a variety of material classes.

**College**
College of Engineering and Computer Science

**Department**
Department of Materials Science and Engineering

**Terms of Offering**
Spring
EMA6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Materials Science and Engineering

EMA6918 - Research
Course Title
Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Materials Science and Engineering

EMA6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department
Department of Materials Science and Engineering

EMA7919 - Research
Course Title
Research
Credits Hours
0 - 99
College
College of Engineering and Computer Science
Department
Department of Materials Science and Engineering

EME - Education: Technology Media
EME5050 - Fundamentals of Technology for Educators

Course Title
Fundamentals of Technology for Educators

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Post bac or C.I.

Course Description
Designed to provide participants with an introduction to the field of educational technology content with emphasis on using and integrating technology in K-12 to improve the teaching and learning process.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Spring
Fall

EME5053 - Electronic Resources for Education

Course Title
Electronic Resources for Education

Credits Hours
3

Prerequisites
- Graduate standing or C.I.

Course Description
Study and application of electronic resources available for education including techniques for locating, evaluating, and integrating them into the classroom.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Fall
EME5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

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EME6053 - Teaching and Learning with Emerging Technologies

**Course Title**
Teaching and Learning with Emerging Technologies

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Study and application of traditional and emerging technological applications available for education including techniques for locating, evaluating, and integrating them into the classroom.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Fall
EME6055 - Current Trends in Instructional Technology

Course Title
Current Trends in Instructional Technology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Survey of current trends and issues of importance to the field of instructional technology.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Spring
Fall

EME6062 - Research in Instructional Technology

Course Title
Research in Instructional Technology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDF 6481

Course Description
Critical review and evaluation of landmark research in the areas of educational media, instructional design, and instructional systems.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Summer
Spring
EME6209 - Multimedia Instructional Systems II

**Course Title**
Multimedia Instructional Systems II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EME 6507 and EME 6613.

**Course Description**
Advanced techniques in delivery and management of web-based multimedia instructional content. Integration of media into web-based instruction. Discussion of delivery and management issues.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Spring

EME6226 - Instructional Development and Evaluation

**Course Title**
Instructional Development and Evaluation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EME 6613 - Instructional System Design.

**Course Description**
The course addresses basic instructional development skills and formative and summative evaluation methods for training in business and industry with application to training educational settings.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Spring
EME6405 - Adapting and Integrating Innovative Technologies in Education

Course Title
Adapting and Integrating Innovative Technologies in Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EME 6053 or C.I.

Course Description
Use of traditional and emerging technological applications in instructional settings by students and teachers. Includes integrated software packages, multimedia productivity suites, Web 2.0 applications, and desktop publishing, as they relate to K-12 curriculum, students, and teacher productivity.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Spring

EME6417 - Interactive Online and Virtual Teaching Environments

Course Title
Interactive Online and Virtual Teaching Environments

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EME 6507.

Course Description
Explores issues and trends in educational and human to computer interactions theories as applied to virtual and online participatory learning environments.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Fall

2021-2022 Graduate Catalog
EME6457 - Distance Education: Technology Process Product

**Course Title**
Distance Education: Technology Process Product

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EME 6507.

**Course Description**
Instruction and how it is delivered at a distance. Examines technologies, processes, and products of distance education with emphasis on e-learning.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
- Spring
- Fall

EME6458 - Virtual Teaching and the Digital Educator

**Course Title**
Virtual Teaching and the Digital Educator

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EME 6417.

**Course Description**
Explores practical applications of instructional theories related to virtual and online participatory learning environments.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
- Spring
EME6465 - Intelligent Tutoring System Design: Theory and Practice

Course Title
Intelligent Tutoring System Design: Theory and Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Authoring adaptive instructional elements, analyzing learner data, classifying/predicting learner states, and evaluating the effectiveness of ITSs and their components.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Occasional

EME6507 - Multimedia for Education and Training

Course Title
Multimedia for Education and Training

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Emphasis on the elements and applications of multimedia and technology in multiple instructional settings. Includes authoring, design, alternative delivery systems, hardware, and software.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Every Semester
EME6601 - Instructional Simulation Design for Training and Education

Course Title
Instructional Simulation Design for Training and Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EME 6613.

Course Description
Integration of ISD methods with simulation systems design, including analysis, design, development and formative evaluation of leading-edge training and educational simulation technologies.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Occasional

EME6602 - Integration of Technology into the Learning Environments

Course Title
Integration of Technology into the Learning Environments

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EME 6053, EME 6405, EME 6507 or C.I.

Course Description
Resources, materials, and strategies for systemic achievement of curriculum goals; investigation of innovative and effective technological advances and practices for use in teaching and learning.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Fall
EME6607 - Planned Change in Instructional Technology

Course Title
Planned Change in Instructional Technology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
In-depth study of the processes of planned change and adoption/rejection of innovations in educational settings.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Spring
Fall

EME6613 - Instructional System Design

Course Title
Instructional System Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
This course focuses on the systematic analysis and design of instruction, including task, learner, and context analyses, objectives and learner assessments, media selection, flowcharting and storyboarding.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Spring
Fall
EME6614 - Instructional Game Design for Training and Education

Course Title
Instructional Game Design for Training and Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EME 6613.

Course Description
Integration of instructional design and game development processes, analysis of existing instructional games and game engines and the design of an instructional game.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

EME6646 - Instructional Game Design for Training and Education

Course Title
Instructional Game Design for Training and Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I. for students not in the Instructional Design and Technology program.

Course Description
The course examines the application of cognitive neuroscience research and physiological explanations of human learning and for designing training and educational systems.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Summer
EME6705 - Administration of Instructional Systems

**Course Title**
Administration of Instructional Systems

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EME 6613.

**Course Description**
Provides opportunities for students to examine parameters, problems, and areas of importance in the management of instructional systems.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Fall

EME6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

EME6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research
EME6938ST1 - Theoretical Foundations of the Learning Sciences

Course Title
Theoretical Foundations of the Learning Sciences

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Research reveals that students often face challenges engaging in effective processes for successful learning, leading to the development of advanced learning technologies (ALTs), which aim to foster the use of effective problem solving, metacognitive monitoring, decision making during learning. There are multiple types of data that can be used for assessing how students learn with these ALTs. However, some data channels may not capture all processes a learner uses. Thus, using a combination of data channels will provide more detailed information about how learners are progressing through a task they are given. Depending on the context and research goals, some data channels will be more appropriate than others. The goal of this graduate seminar is to explore and critically examine theoretical, methodological, and analytical approaches for using multimodal data to assess learning with advanced learning technologies. This will include: (1) reading key publications in the fields of learning sciences, self-regulated learning, affective computing, and computer science and generating thought-provoking questions; (2) integrating key challenges in the literature and leading class discussions to examine these challenges (3) selecting the most appropriate data channels to investigate learning processes; (4) understanding the types of variables data channels can generate; and (5) presenting an idea for developing a new advanced learning technology. In this seminar, we will address how we can use multimodal data to examine learning processes, how advanced learning technologies can be developed to foster the use of these processes, and how studies have been conducted to examine learning and performance with these different types of advanced learning technologies. The course outcomes align with the 5 goals of the seminar outlined above. Specifically, you will be able to: Read and critique academic papers in various disciplines Run stimulating class discussions about key issues in learning sciences Understand, apply, and critique the use of multimodal data Propose how to best use different types of data for assessing learning with an ALT Generate ideas for developing a new advanced learning technology

EME6938ST2 - ST: Research on Advanced Learning Technologies

Course Title
ST: Research on Advanced Learning Technologies

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Research reveals that students often face challenges engaging in ineffective processes for successful learning, leading to the development of advanced learning technologies (ALTs), which aim to foster the use of effective problem solving, metacognitive monitoring, decision making during learning. There are multiple types of data that can be used for assessing how students learn with these ALTs. However, some data channels may not capture all the processes a learner uses. Thus, using a combination of data channels will provide more detailed information about how learners are progressing through a task they are given. Depending on the context and research goals, some data channels will be more appropriate than others. The goal of this graduate seminar is to explore and critically examine theoretical, methodological, and analytical approaches for using multimodal data to assess learning with advanced learning technologies. This will include: (1) reading key publications in the fields of learning sciences, self-regulated learning, affective computing, and computer science and generating thought-provoking questions; (2) integrating key challenges in the literature and leading class discussions to examine these challenges (3) selecting the most appropriate data channels to investigate learning processes; (4) understanding the types of variables data channels can generate; and (5) presenting an idea for developing a new advanced learning technology. In this seminar, we will address how we can use multimodal data to examine learning processes, how advanced learning technologies can be developed to foster the use of these processes, and how studies have been conducted to examine learning and performance with these different types of advanced learning technologies. The course outcomes align with the 5 goals of the seminar outlined above. Specifically, you will be able to: Read and critique academic papers in various disciplines Run stimulating class discussions about key issues in learning sciences Understand, apply, and critique the use of multimodal data Propose how to best use different types of data for assessing learning with an ALT Generate ideas for developing a new advanced learning technology
EME6938ST3 - ST: Metacognition

Course Title
ST: Metacognition

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
The goal of this graduate seminar is to critically examine contemporary interdisciplinary research in the area of metacognition.

EME6938ST4 - ST: Story Design for Instruction

Course Title
ST: Story Design for Instruction

Credits Hours
3

Lab/Studio/Field Work Hours
3

Course Description
The course considers story as an instructional approach for knowledge transfer to meet learning outcomes through instructional design. Stories can enhance instruction, training, and communication.

EME6940 - Theory into Practice in Educational Technology

Course Title
Theory into Practice in Educational Technology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of all core courses in educational technology.

Course Description
Practicum in facilitating the utilization of instructional media and information technologies.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Summer
EME7634 - Advanced Instructional Systems Design

Course Title
Advanced Instructional Systems Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EME 6613.

Course Description
Analysis of fundamental concepts of theoretical and procedural instructional systems design models with an emphasis on their cognitive origins, pedagogical bases, current and future values.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Spring

EME7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research
EME7942 - Doctoral Internship in Educational Technology

**Course Title**
Doctoral Internship in Educational Technology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of PhD core and 75 percent specialization.

**Course Description**
Higher education teaching assignment as an intern under a senior faculty mentor in Educational Technology or Instructional Systems.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Occasional

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**EML - Engineering: Mechanical**

EML5026C - Computational Engineering Analysis

**Course Title**
Computational Engineering Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- EML 4024C.

**Course Description**
Principle understanding and project based hands-on experience on computational engineering analysis including Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), and Multi-body Dynamics (MBD).

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Occasional
EML5060 - Mathematical Methods in Mechanical and Aerospace Engineering

**Course Title**
Mathematical Methods in Mechanical and Aerospace Engineering

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAP 2302.

**Course Description**
Vector field theory, generalized coordinates, complex variables, contour integration and Laplace and Fourier transforms and inversions, variable coefficient ODEs and solution of PDEs for governing equations of heat transfer, ideal fluid flow, and mechanics.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Fall

EML5066 - Computational Methods in Mechanical and Aerospace Engineering

**Course Title**
Computational Methods in Mechanical and Aerospace Engineering

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EML 3034C.

**Course Description**
Error Norms, interpolation and extrapolation, quadratures and adaptive quadratures, solutions of linear and nonlinear systems of equations, functional approximation, solution of ODE's and MWR.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Occasional
EML5090 - Mechanical and Aerospace Seminar

Course Title
Mechanical and Aerospace Seminar

Credits Hours
0 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
The course is intended to help MAE graduate students practice public speaking, learn skills of scientific communication, expand their width of knowledge, and promote collaborations. May be repeated.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Spring
Fall

EML5105 - Gas Kinetics and Statistical Thermodynamics

Course Title
Gas Kinetics and Statistical Thermodynamics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EAS 4134 or EML 4703.

Course Description
Molecular and statistical viewpoint of gases and thermodynamics; Boltzmann collision integral, partition functions, non-equilibrium flows. Applications in thermo-fluid systems.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML5152 - Intermediate Heat Transfer
Course Title
Intermediate Heat Transfer

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 4142, EML 5060.

Course Description
An intermediate-level course dealing with heat and mass diffusion, boundary layer problems, and radiation from real bodies. Emphasis on combined modes, numerical methods.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML5228 - Modal Analysis
Course Title
Modal Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 3303C, EML 4225, and EML 5060.

Course Description
Theoretical basis. Measurement techniques, excitation, transducers, data acquisition. Detailed data analysis, modal parameter extraction, curve-fitting procedures. Modeling.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML5237 - Intermediate Mechanics of Materials

**Course Title**
Intermediate Mechanics of Materials

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EML 3500 or EAS 4200.

**Course Description**

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Fall

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EML5271 - Intermediate Dynamics

**Course Title**
Intermediate Dynamics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EGN 3321.

**Course Description**
Dynamics of particles, rigid bodies, and distributed mass systems. Topics include: Hamilton's principle, Lagrange's equations, Numerical methods, and Mechanisms.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Spring
EML5290 - Introduction to MEMS and Micromachining

Course Title
Introduction to MEMS and Micromachining

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Odd Fall

EML5291 - MEMS Materials

Course Title
MEMS Materials

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5060, EML 6211, or C.I.

Course Description
Introduction of materials that are frequently used for MEMS applications such as silicon, metal, ceramics and polymers. The course will focus on fundamental principles involved in structures and properties of the materials, and their applications in MEMS.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Even Spring
EML5311 - System Control  
**Course Title**  
System Control  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- EML 4225.  
**Corequisites**  
- EML 5060.  
**Course Description**  
Modern control theory for linear and non-linear systems; controllability and observability. Linear state feedback and state estimators, compensator design.  
**College**  
College of Engineering and Computer Science  
**Department**  
Department of Mechanical and Aerospace Engineering  
**Terms of Offering**  
Occasional  

EML5402 - Turbomachinery  
**Course Title**  
Turbomachinery  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- EML 3101, EML 4703 or EAS 4134.  
**Course Description**  
Application of the principles of fluid mechanics, thermodynamics, and aerodynamics to the design and analysis of steam and gas turbines, compressors, and pumps.  
**College**  
College of Engineering and Computer Science  
**Department**  
Department of Mechanical and Aerospace Engineering  
**Terms of Offering**  
Occasional
EML5403 - Science and Technology of Fuel Cells

Course Title
Science and Technology of Fuel Cells

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

* EGN 3365, EMA 4102 or C.I.

Course Description
Fundamental knowledge along with hands-on experience with design, manufacturing and operation of fuel cells.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML5430C - Design for Manufacturing in Turbomachinery: Gas/Steam/Wind Turbines and Generators

Course Title
Design for Manufacturing in Turbomachinery: Gas/Steam/Wind Turbines and Generators

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites

* EGN 3365 or EMA 3706.

Course Description
Overall assembly of rotating and stationary components in power generation powertrains; probabilistic design, materials, coatings, manufacturing steps, defects for gas/steam/wind turbines and generators.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Fall
EML5431C - Design for Mechanical and Dynamic Integrity and Reliability in Turbomachinery

**Course Title**
Design for Mechanical and Dynamic Integrity and Reliability in Turbomachinery

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- EGM 3601, EML 4220 or EML 4225, EGN 3365 or EMA 3706.

**Course Description**
Mechanical and dynamic integrity issues such as creep, fatigue, fracture, rotordynamics, vibration, flutter, as related to turbines and generators; reliability; cost-time-performance trade-off in design.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Spring

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EML5456 - Turbines for Sustainable Power

**Course Title**
Turbines for Sustainable Power

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EGM 3601, (EGN 3365 or EMA 3706), (EML 3701 or EAS 3101)

**Corequisites**
- EML 4142.

**Course Description**
Multidisciplinary aspects of turbine design for sustainable power generation including aerodynamics to combustion and emissions to reliability; covers multiple applications of convention and green technology.

**College**
College of Engineering and Computer Science

**Department**
Department of Mechanical and Aerospace Engineering

**Terms of Offering**
Fall
EML5532C - Computer-Aided Design for Manufacture

Course Title
Computer-Aided Design for Manufacture

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- EGN 4535C.

Course Description
Builds on introductory material covered in EML 4535C. Topics include computer modeling for the synthesis, simulation, design and manufacture of mechanical, thermal, and aerospace systems.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML5545 - Smart and Adaptive Structures

Course Title
Smart and Adaptive Structures

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
(EAS 4200 or EML 3500) and EML 4225 and (EGN 3365 or EMA 3706) or C.I. Modeling and design of structures with integrated active materials: piezoelectric ceramics and polymers, shape memory alloys and polymers, magneto- / electro-rheological fluids, magneto- / electro-strictives. Multi-stable structures.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Even Spring
EML546 - Engineering Design with Composite Materials

Course Title
Engineering Design with Composite Materials

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5237.

Course Description
Mechanics of structural components of composite materials under static, thermal, vibratory loads. Instability. Lamina and laminate theory, energy methods, failure theories, and structural joining methods.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML5713 - Intermediate Fluid Mechanics

Course Title
Intermediate Fluid Mechanics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 4703.

Corequisites
- EML 5060.

Course Description
Fluid kinematics; conservation equations; Navier-Stokes equations; boundary layer flow, inviscid flow, circulation and vorticity; low Reynolds number flow; turbulence.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

EML6062 - Boundary Element Methods in Engineering

Course Title
Boundary Element Methods in Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5237 or EML 5713 or C.I.

Course Description
Integral (numerical) solution of potential, Poisson and diffusion equations; applications to heat transfer and fluid flow; complex variable boundary element methods.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML 6067 - Finite Elements in Mechanical, Materials, and Aerospace Engineering I

Course Title

Finite Elements in Mechanical, Materials, and Aerospace Engineering I

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- EML 5237 or EML 5713.

Course Description


College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Terms of Offering

Spring

EML 6068 - Finite Elements in Mechanical, Materials, and Aerospace Engineering II

Course Title

Finite Elements in Mechanical, Materials, and Aerospace Engineering II

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- EML 6067 or C.I.

Course Description


College

College of Engineering and Computer Science

Department

Department of Mechanical and Aerospace Engineering

Terms of Offering

Occasional
EML6085 - Research Methods in Mechanical and Aerospace Engineering

Course Title
Research Methods in Mechanical and Aerospace Engineering

Credits Hours
3 - 99

Lab/Studio/Field Work Hours
0

Prerequisites

• EML 5060.

Course Description
Research project is an MAE option under supervision of an adviser. A project report is due at the end of the semester.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Spring

EML6104 - Classical Thermodynamics

Course Title
Classical Thermodynamics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

• EML 3101 or C.I.

Course Description
A general postulative approach to classical macroscopic thermodynamics featuring states as fundamental constructs. Conditions of equilibrium, stability criteria, thermodynamic potentials. Maxwell relations and phase transitions.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML6131 - Combustion Phenomena

Course Title
Combustion Phenomena

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5152.

Course Description
Physical and chemical aspects of combustion phenomena. Rate processes, chemical kinetics, structure, propagation and stability of premixed and diffusion flames.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML6144 - Boiling and Condensation Heat Transfer

Course Title
Boiling and Condensation Heat Transfer

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 4142 or C.I.

Course Description

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML6154 - Conduction Heat Transfer

Course Title
Conduction Heat Transfer

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5152 or C.I.

Course Description
Classical and numerical techniques applied to the solution of steady and transient conduction problems. Applications to the design of thermal systems.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML6155 - Convection Heat Transfer

Course Title
Convection Heat Transfer

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5152, EML 5713, or C.I.

Course Description
Convection heat, mass and momentum transfer in laminar and turbulent flows. Applications to the design of thermal systems.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML6157 - Radiation Heat Transfer
Course Title
Radiation Heat Transfer
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EML 5152 or C.I.
Course Description
Radiation properties of surfaces and analysis of radiative heat transfer between black, gray, non-gray and non-diffuse surfaces. Multimode problems.
College
College of Engineering and Computer Science
Department
Department of Mechanical and Aerospace Engineering
Terms of Offering
Occasional

EML6211 - Continuum Mechanics
Course Title
Continuum Mechanics
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- EML 5237.
Course Description
Introduction to tensors; deformation and strain; stress; balance laws; constitutive equations; applications in linear elasticity.
College
College of Engineering and Computer Science
Department
Department of Mechanical and Aerospace Engineering
Terms of Offering
Spring
EML6223 - Advanced Vibrational Systems

Course Title
Advanced Vibrational Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 4220, EML 5271 or C.I.

Course Description

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML6226 - Analytical Dynamics

Course Title
Analytical Dynamics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5271.

Course Description
Kane method for kinematics and dynamics of particle and rigid bodies is developed and contrasted with Newton and Lagrange methods. Multibody dynamics.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML 6227 - Nonlinear Vibration

Course Title
Nonlinear Vibration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EML 5060 and EML 5271. Robust, reliable algorithms for simulation of nonlinear phenomena; phase planes; limit cycles; stability; period-multiplying bifurcations; strange attractors; Poincare maps; Floquet theory; Lyapunov exponents; applications to mechanical and aerospace systems.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML 6233 - Fundamentals of Fatigue Analysis

Course Title
Fundamentals of Fatigue Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 6211 or C.I.

Course Description
A review of classical and modern methods of fatigue life prediction and the physical process therein. Primary emphasis relates to metallic materials.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Even Spring
EML6238 - Plates and Shells

Course Title
Plates and Shells

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EGM 3601, EML 6211, EML 5060. This course introduces the reduction of 3D elasticity to an equivalent 2D counterpart; basic assumptions; field equations of the theory of plates and shells; linear and nonlinear theories; buckling and vibrations; refined plate and shell theories.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML6295 - Sensors and Actuators for Micro Mechanical Systems

Course Title
Sensors and Actuators for Micro Mechanical Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5060, EML 6211, or C.I.

Course Description

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML6296 - MEMS Mechanism and Design

Course Title
MEMS Mechanism and Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 3500, EGM 3601, EML 4142.

Course Description
Miniature Electro Mechanical Systems (MEMS) working mechanisms (mechanical, thermal, electric, piezoelectric, magnetic, etc.). Design rules. May be repeated for credit.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Spring

EML6297 - MEMS Characterization

Course Title
MEMS Characterization

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5060, EML 6211, or C.I.

Course Description
Introduction of methods, techniques and philosophies being used to characterize MEMS for engineering applications. Materials characterization, systems characterization (mechanical, electrical, optical, etc). Test methods and sample preparation. Test results analysis.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML6299 - Advanced Topics on Miniaturization

Course Title
Advanced Topics on Miniaturization

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5060, EML 6211, or C.I.

Course Description
Advanced sensor and actuator devices, advanced micro-thermal systems, advanced topics on materials for MEMS, advanced topics on tribology for MEMS/NEMS, advanced topics on miniature power generation systems.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML6305C - Experimental Mechanics

Course Title
Experimental Mechanics

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- EML 4304C, EML 5237.

Course Description
Selected topics in strain measurements, photoelasticity, holographic interferometry; laser speckle measurement; acoustic emission, measurement of correlation and coherence functions.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

Current Fee Per Student
$25.00
EML6308C - Thermofluids Measurements and Instrumentation

Course Title
Thermofluids Measurements and Instrumentation

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- EML 4703, EML 3303C, EML 5060, EML 5152 or C.I.; not open to students that have credit for EAS 6807C.

Course Description
Surface pressure and shear measurements, hotwire anemometry, heat transfer coefficient measurement, LDV, PDPA and PIV flow field measurements.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML6547 - Engineering Fracture Mechanics in Design

Course Title
Engineering Fracture Mechanics in Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5237 or C.I.

Course Description
General understanding of elementary concepts. Practical application enabling useful prediction of fracture safety and characteristics. Some general knowledge of fracture mechanisms and fracture criteria.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML6572 - Probabilistic Methods in Mechanical Design

Course Title
Probabilistic Methods in Mechanical Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 3032 and EML 3500 or EAS 4200.

Course Description
Uncertainty modeling in design and analysis of industrial equipment and engineering systems (data analytics, quality control, and reliability engineering).

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML6712 - Mechanics of Viscous Flow

Course Title
Mechanics of Viscous Flow

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5060, EML 5713.

Course Description
Principal concepts and methods for viscous fluid motion. Incompressible and compressible boundary layer analysis for laminar and turbulent flows.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Odd Fall
EML6725 - Computational Fluid Dynamics and Heat Transfer I

Course Title
Computational Fluid Dynamics and Heat Transfer I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 5152 or C.I.

Course Description
Finite Difference methods; error and stability analysis; applications to model equations and further developments; matrix methods.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Spring

EML6726 - Computational Fluid Dynamics and Heat Transfer II

Course Title
Computational Fluid Dynamics and Heat Transfer II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 6725.

Course Description
Development of governing equations; turbulence modeling; numerical solution of Euler and potential equations, Navier-Stokes equations, and boundary layer equations; grid generation.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional
EML6808 - Analysis and Control of Robot Manipulators

Course Title
Analysis and Control of Robot Manipulators

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EML 4312C, EML 5271, or C.I.

Course Description
Kinematics and dynamics of multibody systems, especially robot manipulators. Design and control of robot manipulators.

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

Terms of Offering
Occasional

EML6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

EML6918 - Research

Course Title
Research

Credits Hours
0 - 99

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering
EML7908 - Independent Study

Course Title
Independent Study

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Mechanical and Aerospace Engineering

EMR - Education: Mental Retardation

EMR5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

EMR5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
EMR6235 - Nature of Severe and Profound Disabilities: Theory and Educational Practice

Course Title
Nature of Severe and Profound Disabilities: Theory and Educational Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Overview of theory and teaching applications for students with severe and profound disabilities including major theories and trends, appropriate learning goals, teaching approaches, and environmental arrangements.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall

EMR6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

EMR6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education
EMR6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education

ENC - English

ENC5237 - Writing for the Business Professional

Course Title
Writing for the Business Professional

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
A study of the major document designs for professionals in business, focusing on audience, purpose, style, arrangements, and content.

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Spring
Fall

2021-2022 Graduate Catalog
ENC5276 - Theory and Practice of Tutoring Writing

Course Title
Theory and Practice of Tutoring Writing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the M.A. in Rhetoric and Composition program, graduate standing or C.I.

Course Description
The theory and practice of assessing and responding to writing as a collaborator (as opposed to evaluator).

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Fall

ENC5337 - Rhetorical Theory

Course Title
Rhetorical Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Overview of theory and history of classical and modern rhetorical theory and rhetorical instruction.

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Fall
Odd Summer
ENC5703 - Composition Histories and Theories

Course Title
Composition Histories and Theories

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Intensive seminar on historical, theoretical, and intellectual traditions and approaches to composition and rhetoric.

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Spring
Fall

ENC5705 - Approaches to Teaching College Composition

Course Title
Approaches to Teaching College Composition

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
Intensive pedagogical and theoretical seminar on teaching composition at the college level.

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Spring
Fall
ENC5917 - Directed Research  
**Course Title**  
Directed Research  

**Credits Hours**  
1 - 99  

**College**  
College of Arts and Humanities  

**Department**  
Department of English  

ENC5920 - Colloquium in Rhetoric and Composition  
**Course Title**  
Colloquium in Rhetoric and Composition  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Graduate standing or C.I.  

**Course Description**  
Foundational concepts, readings, and journals in the areas of composition, literacy, and rhetoric.  

**College**  
College of Arts and Humanities  

**Department**  
Department of Writing and Rhetoric  

**Terms of Offering**  
Fall
ENC5930 - Current Topics in Professional Writing

Course Title
Current Topics in Professional Writing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or C.I.

Course Description
Students will learn how to produce texts for specialized fields of discourse, including the medical and legal profession, as well as for general publication.

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Occasional

ENC5933 - Seminar for Peer Writing Consultants

Course Title
Seminar for Peer Writing Consultants

Credits Hours
0 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Explore writing center research and practice on a professional level.

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Spring
Fall
ENC5937 - Special Topics
Course Title
Special Topics
Credits Hours
0 - 3
College
College of Arts and Humanities
Department
Department of English

ENC6216 - Editing Professional Writing
Course Title
Editing Professional Writing
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing or C.I.
Course Description
The study of major issues in editing, includes theory and scholarship of professional editing.
College
College of Arts and Humanities
Department
Department of Writing and Rhetoric
Terms of Offering
Spring
ENC6217 - Technical Editing
Course Title
Technical Editing
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing in English, or C.I.
Course Description
A study of the strategies for editing the prose, design, and illustrations of print and online technical documents.
College
College of Arts and Humanities
Department
Department of English
Terms of Offering
Occasional

ENC6225 - User-Centered Design for Technical Communication
Course Title
User-Centered Design for Technical Communication
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to English MA or C.I.
Course Description
Covers multiple user-centered design methods, including usability testing; prototyping; and user research. Applies methods to a technical communication design problem.
College
College of Arts and Humanities
Department
Department of English
Terms of Offering
Fall
ENC6245 - Teaching Professional Writing

**Course Title**
Teaching Professional Writing

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Theory and practice of teaching professional writing in college and the workplace. Includes historical and contemporary approaches.

**College**
College of Arts and Humanities

**Department**
Department of Writing and Rhetoric

**Terms of Offering**
Occasional

ENC6247 - Proposal Writing

**Course Title**
Proposal Writing

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in English or C.I.

**Course Description**
Theory and practice of writing proposals.

**College**
College of Arts and Humanities

**Department**
Department of Writing and Rhetoric

**Terms of Offering**
Occasional
ENC6255 - International Technical Communication
Course Title
International Technical Communication
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to the English MA program or C.I.
Course Description
Documentation for international audiences and the challenges of communicating across cultures.
College
College of Arts and Humanities
Department
Department of English
Terms of Offering
Spring

ENC6257 - Visual Technical Communication
Course Title
Visual Technical Communication
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing in English or C.I.
Course Description
Creation and editing of graphics in technical documents.
College
College of Arts and Humanities
Department
Department of English
Terms of Offering
Occasional
ENC6261 - Technical Writing, Theory and Practice

Course Title
Technical Writing, Theory and Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
A study of major trends in technical communication theory and the practices this theory generates.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional

ENC6292 - Project Management for Technical Writers.

Course Title
Project Management for Technical Writers.

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Managing a writing project from inception to production; planning, budgeting, personnel, writing, and editing.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional
ENC6296 - Interactive Design in Technical Communication
Course Title
Interactive Design in Technical Communication
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing or C.I.
Course Description
The theory and practice of writing and designing interactive systems for users, including online help tutorials, procedures, and demonstrations.
College
College of Arts and Humanities
Department
Department of English
Terms of Offering
Occasional

ENC6297 - Production and Publication Methods
Course Title
Production and Publication Methods
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing in English or C.I.
Course Description
Production of technical documents including typography, visual rhetoric, layout and design, and planning and managing documentation projects.
College
College of Arts and Humanities
Department
Department of English
Terms of Offering
Occasional
ENC6306 - Persuasive Writing

Course Title
Persuasive Writing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in English or C.I.

Course Description
Theory and practice of writing persuasively.

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Occasional

ENC6332 - Gendered Rhetoric

Course Title
Gendered Rhetoric

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in English or C.I.

Course Description
Questions women's and men's linguistic choices, the influence of medium and discipline of discourse, and consequences of status, power, and oppression.

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Occasional
ENC6333 - Contemporary Rhetoric and Composition Theory

Course Title

Contemporary Rhetoric and Composition Theory

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- Graduate standing or C.I.

Course Description

Instruction on politics of basic writing programs, rhetoric, ideology and cultural production, poststructuralism and rhetoric or reminist pedagogies.

College

College of Arts and Humanities

Department

Department of Writing and Rhetoric

Terms of Offering

Occasional

ENC6335 - Rhetorical Traditions

Course Title

Rhetorical Traditions

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- Graduate standing in English or C.I.

Course Description

Philosophy and techniques of classical rhetoricians such as Isocrates, Aristotle, and Cicero with special attention to their application to contemporary rhetorical situations.

College

College of Arts and Humanities

Department

Department of Writing and Rhetoric

Terms of Offering

Spring

Fall

2021-2022 Graduate Catalog
ENC6338 - The Rhetorics of Public Debate

Course Title
The Rhetorics of Public Debate

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in English or C.I.

Course Description
How rhetorical theories further community goals, including activist, political, legislative, and other significant public debates.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional

ENC6339 - Rhetorical Movements

Course Title
Rhetorical Movements

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
To study the principal rhetorical theories of the classical period and rhetoric of the eighteenth and nineteenth centuries.

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Occasional
ENC6421 - Digital Rhetorics

Course Title
Digital Rhetorics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Study of rhetorical theory and practice shaped by digital environments, technologies, and texts, including contemporary issues around rhetorical invention, identity, and multimodality.

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Occasional

ENC6425 - Hypertext Theory and Design

Course Title
Hypertext Theory and Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing in English or C.I. Theoretical and practical study of the uses and premises of hypertext.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional
ENC6426 - Visual Texts and Technology

**Course Title**
Visual Texts and Technology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Studies visual dimensions of the texts of digital discourse.

**College**
College of Arts and Humanities

**Department**
College of Arts and Humanities Dean's Office

**Terms of Offering**
Occasional

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ENC6428 - Digital Literacies

**Course Title**
Digital Literacies

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Study of digital technology's impact on literacy theory, activities, and pedagogy, including reading and writing practices, as well as larger cultural shifts in communication and patterns of thinking.

**College**
College of Arts and Humanities

**Department**
Department of Writing and Rhetoric

**Terms of Offering**
Occasional
ENC6429 - Teaching Writing With Computers
Course Title
Teaching Writing With Computers
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing in English or C.I.
Course Description
Immersion in the theories and practices of writing in electronic spaces including current discourse conventions from speech and print media.
College
College of Arts and Humanities
Department
Department of English
Terms of Offering
Occasional

ENC6484 - Rhetoric of Health and Medicine
Course Title
Rhetoric of Health and Medicine
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate Standing or C.I.
Course Description
How health and medical rhetorics function in society; will study the rhetorical dimensions of clinical care, public health, patient advocacy, and personal health management.
College
College of Arts and Humanities
Department
Department of Writing and Rhetoric
Terms of Offering
Occasional
ENC6701 - Professional Writing Studies
Course Title
Professional Writing Studies
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate Standing or C.I.
Course Description
Foundational theories and practices in rhetoric and professional writing.
College
College of Arts and Humanities
Department
Department of Writing and Rhetoric
Terms of Offering
Fall

ENC6712 - Studies in Literacy and Writing
Course Title
Studies in Literacy and Writing
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing in English or C.I.
Course Description
Theories of cultural and critical literacy, definitions of literacy, and current political issues in literacy studies.
College
College of Arts and Humanities
Department
Department of Writing and Rhetoric
Terms of Offering
Odd Fall
ENC6720 - Research Methods in Rhetoric and Composition

**Course Title**
Research Methods in Rhetoric and Composition

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Study and practice in research methods of Rhetoric and Composition Studies, with emphasis on textual and qualitative approaches.

**College**
College of Arts and Humanities

**Department**
Department of Writing and Rhetoric

**Terms of Offering**
Spring

ENC6740 - Topics in Rhetoric and Composition

**Course Title**
Topics in Rhetoric and Composition

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
In-depth exploration of important historical, theoretical, and/or pedagogical topics in Rhetoric and Composition Studies. May be used in the degree program a maximum of 2 times only when course content is different.

**College**
College of Arts and Humanities

**Department**
Department of Writing and Rhetoric

**Terms of Offering**
Occasional
ENC6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

ENC6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

ENC6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of English
ENC6945 - Community Literacy Practicum

Course Title
Community Literacy Practicum

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in English or C.I.

Course Description
Designed to deepen theoretical understanding of literacy through participation in a community literacy project.

College
College of Arts and Humanities

Department
Department of Writing and Rhetoric

Terms of Offering
Occasional

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ENG - English: General

ENGS009 - Methods of Bibliography and Research

Course Title
Methods of Bibliography and Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
Bibliographical, library and systematic approaches to research at the graduate level in language and literature.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Fall
ENG5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

ENG5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of English

ENG6005 - Dissertation Research Design in Texts and Technology
Course Title
Dissertation Research Design in Texts and Technology
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- ENG 6812 or ENC 6720 or DIG 6825 or HIS 6159 or C.I.
Course Description
Preparation for the initial stages of dissertation development, including planning, research question development, and methodology determination.
College
College of Arts and Humanities
Department
College of Arts and Humanities Dean's Office
Terms of Offering
Fall
ENG6074 - Historical Movements in Literary, Cultural, and Textual Studies
Course Title
Historical Movements in Literary, Cultural, and Textual Studies
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing or C.I.
Course Description
Theories of literature, cultural, and textual formation from ancient Greece to the mid 20th century.
College
College of Arts and Humanities
Department
Department of English
Terms of Offering
Occasional

ENG6078 - Contemporary Movements in Literary, Cultural, and Textual Theory
Course Title
Contemporary Movements in Literary, Cultural, and Textual Theory
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing in English or C.I.
Course Description
Theories of literature, cultural, and textual formation since the mid 20th century.
College
College of Arts and Humanities
Department
Department of English
Terms of Offering
Fall
ENG6624 - Social Media Research for Humanities

Course Title
Social Media Research for Humanities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Fundamentals of humanist research in social media. Students read canonical and contemporary social media research and learn to collect and analyze social media data.

College
College of Arts and Humanities

Department
College of Arts and Humanities Dean's Office

Terms of Offering
Occasional

ENG6800 - Introduction to Texts and Technology

Course Title
Introduction to Texts and Technology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Basic concepts of graduate study in Texts and Technology.

College
College of Arts and Humanities

Department
College of Arts and Humanities Dean's Office

Terms of Offering
Fall
ENG6801 - Texts and Technology in History

Course Title
Texts and Technology in History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Acceptance into the Texts and Technology program, graduate standing, or C.I.

Course Description
Explores the history of relations between the Texts and Technology. We examine how various technologies have influenced the nature of texts they produce.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Spring

ENG6806 - Digital Editing and Databases

Course Title
Digital Editing and Databases

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Enrollment in Texts and Technology PhD program or Digital Media master's program.

Course Description
Applied aspects of textual reproduction and editing, including scanning (OCR) and XML coding, as such processes relate to database content and use.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional
ENG6808 - Narrative Information Visualization  

**Course Title**  
Narrative Information Visualization  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Course Description**  
Graduate standing or C.I. Exploration of theory and practice of information visualization, with emphasis on visualization in interactive digital texts. Includes working with large datasets to develop narrative visualizations.  

**College**  
College of Arts and Humanities  

**Department**  
College of Arts and Humanities Dean's Office  

**Terms of Offering**  
Occasional

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ENG6810 - Theories of Texts and Technology  

**Course Title**  
Theories of Texts and Technology  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Acceptance into the Texts and Technology program, graduate standing, or C.I.

**Course Description**  
Introduces general theoretical concepts as a basis for the advanced study of Texts and Technology.  

**College**  
College of Arts and Humanities  

**Department**  
College of Arts and Humanities Dean's Office  

**Terms of Offering**  
Spring
ENG6811 - Cultural Contexts in Texts and Technology

**Course Title**
Cultural Contexts in Texts and Technology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Selected cultural contexts in which texts and technologies converge and where reciprocal mediation, definition, or transformation occurs. May be used in the degree program a maximum of 2 times.

**College**
College of Arts and Humanities

**Department**
College of Arts and Humanities Dean's Office

**Terms of Offering**
Fall

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ENG6812 - Research Methods for Texts and Technology

**Course Title**
Research Methods for Texts and Technology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Acceptance into the Texts and Technologies program, graduate standing, or C.I.

**Course Description**
Prepares students to design, conduct, and critique empirical research in textual technologies, broadly conceived.

**College**
College of Arts and Humanities

**Department**
College of Arts and Humanities Dean's Office

**Terms of Offering**
Fall
ENG6813 - Interdisciplinary Teaching

Course Title
Interdisciplinary Teaching

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Theory and practice of designing interdisciplinary courses and curricula for the humanities. Includes strategies, theories, and best practices.

College
College of Arts and Humanities

Department
College of Arts and Humanities Dean's Office

Terms of Offering
Spring

ENG6814 - Gender in Texts and Technology

Course Title
Gender in Texts and Technology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Relationships among text, science, technology and gender.

College
College of Arts and Humanities

Department
College of Arts and Humanities Dean's Office

Terms of Offering
Occasional
ENG6819 - Critical Making for Humanist Scholarship

**Course Title**
Critical Making for Humanist Scholarship

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Critical making is making as scholarship, grounded in the humanities, interweaving design, function, and theory through attention to code, software, and hardware.

**College**
College of Arts and Humanities

**Department**
College of Arts and Humanities Dean's Office

**Terms of Offering**
Occasional

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ENG6826 - Professionalization in Texts and Technology

**Course Title**
Professionalization in Texts and Technology

**Credits Hours**
0 - 99

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing or C.I. Professional development workshops, panel discussions, and hands-on activities to assist graduate students in preparing for successful careers.

**College**
College of Arts and Humanities

**Department**
College of Arts and Humanities Dean's Office

**Terms of Offering**
Every Semester
ENG6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

ENG6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

ENG6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of English
ENG6939 - Topics in Text and Technology

Course Title
Topics in Text and Technology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Experimental methods of writing and research, possibly including photography, cinema, Internet, and other transformations of narrative form. May be used in the degree program a maximum of 3 times.

College
College of Arts and Humanities

Department
College of Arts and Humanities Dean's Office

Terms of Offering
Spring
Fall

ENG6947 - Internship in Texts and Technology

Course Title
Internship in Texts and Technology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Texts and Technology PhD program or CI.

Course Description
Internship in opportunity to integrate practical experience with theory and content from Texts and Technology program.

College
College of Arts and Humanities

Department
College of Arts and Humanities Dean's Office

Terms of Offering
Fall
ENG6949 - Cooperative Education in English: General

Course Title
Cooperative Education in English: General

Credits Hours
0 - 99

College
College of Arts and Humanities

Department
Department of English

ENG6950 - Capstone Course

Course Title
Capstone Course

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in English and at least 18 graduate credit hours in English.

Course Description
Systematic and comprehensive revision of previous graduate writing with special attention to use of theory and professionalization towards the goal of publication and/or conference presentation.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Spring

ENL - English Literature

ENL5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of English
ENL5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of English

ENL6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

ENL6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

ENL6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of English

ENT - Entrepreneurship
ENT5016 - New Venture Design

Course Title
New Venture Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Applies contemporary methodologies to guide the creation, validation, and ongoing development of new business models for startup businesses and other new ventures.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Fall

ENT5185 - Technological Entrepreneurship

Course Title
Technological Entrepreneurship

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Examines how technology and innovation processes affect social and organizational change, and the distinct challenges associated with launching, managing and growing technology-based business ventures.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Spring
ENT5206 - New Venture Implementation

Course Title
New Venture Implementation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
ENT 5XXX New Venture Design. Explains how to execute a well-researched business model by implementing required and strategic actions necessary to launch a new venture.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Spring

ENT5619 - Creativity and Entrepreneurship

Course Title
Creativity and Entrepreneurship

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing.

Course Description
This course presents contemporary methods for characterizing customer problems, designing creative solutions, and assessing value propositions for startup business ventures.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Fall
ENT5946 - Small Business Consulting

Course Title
Small Business Consulting

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
This is a highly experiential course where students are assigned to teams that complete consulting projects for local small businesses.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Fall

ENT6418 - Small Business Accounting and Finance

Course Title
Small Business Accounting and Finance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Master's of Science in Management Integrated Business track.

Course Description
Introduces accounting concepts, financial statements, ratio analysis, time value of money, cash flow management, forecasting, funding sources, cost of capital, and capital budgeting.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Spring
ENT6617 - Innovation and Entrepreneurship Strategy

Course Title
Innovation and Entrepreneurship Strategy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing. An in-depth examination of strategies that promote the diffusion of innovations and the success of innovation-driven business and social ventures.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Summer
Fall

ENT6900 - Entrepreneurship Portfolio

Course Title
Entrepreneurship Portfolio

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the graduate college.

Course Description
This course provides students with an opportunity to achieve new venture development milestones, demonstrate specific entrepreneurial competencies associated with those milestones, and connect with community experts tasked with assessing their efforts. It emphasizes entrepreneurship as practice, and rewards students for making tangible progress on connecting with customers, developing solutions, and organizing startup ventures.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Occasional

ENV - Engineering: Environmental
**ENV5410 - Water Treatment**

**Course Title**
Water Treatment

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EES 4202C or ENV 5517 or C.I.

**Course Description**
Potable water regulations, standards, chemical reactors, oxidation, disinfection, disinfection by-products, ultraviolet irradiation. Internal corrosion and microbial control in municipal and industrial water distribution systems.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Odd Spring

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**ENV5505 - Sludge Management Operations in Environmental Engineering**

**Course Title**
Sludge Management Operations in Environmental Engineering

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ENV 4561.

**Course Description**
Theory and design of sludge management operations and processes in environmental engineering, including stabilization dewatering and ultimate disposal.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Occasional
ENV5517 - Engineering Chemical and Biological Processes

Course Title
Engineering Chemical and Biological Processes

Credits Hours
3

Lab/Studio/Field Work Hours
0

Corequisites
- ENV 4561 (or equivalent) or C.I.

Course Description
Coverage of equilibrium/aquatic chemistry, softening and coagulation, and disinfection of water. Microbiology and biochemistry as applied to activated sludge system design.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Fall

ENV5636 - Environmental and Water Resources Systems Analysis

Course Title
Environmental and Water Resources Systems Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ENV 3001 or C.I.

Course Description
Discussion of environmental and water resources systems with the emphasis on cost-effectiveness, pollution prevention, and sustainability to aid in environmental engineering decision-making.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
ENVS917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

ENVS937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

ENVS6015 - Physical/Chemical Treatment Systems in Environmental Engineering

**Course Title**
Physical/Chemical Treatment Systems in Environmental Engineering

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ENV 4561 and EES 4202C or C.I.

**Course Description**
Theory and design of physical and chemical operations and processes in environmental engineering using latest technologies.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Fall
ENV6016 - Biological Treatment Systems in Environmental Engineering

Course Title
- Biological Treatment Systems in Environmental Engineering

Credits Hours
- 3

Lab/Studio/Field Work Hours
- 0

Prerequisites
- EES 4111C and ENV 4561 or C.I.

Course Description
- Theory and design of biological operations and processes in environmental engineering using the latest technologies.

College
- College of Engineering and Computer Science

Department
- Department of Civil, Environmental, and Construction Engineering

Terms of Offering
- Spring

ENV6030 - Environmental Biotechnology

Course Title
- Environmental Biotechnology

Credits Hours
- 3

Lab/Studio/Field Work Hours
- 0

Prerequisites
- EES 4111C.

Course Description
- Environmental Biotechnology teaches graduate students the management of microorganism-based engineer systems for applications in waste treatment and energy generation.

College
- College of Engineering and Computer Science

Department
- Department of Civil, Environmental, and Construction Engineering

Terms of Offering
- Even Spring
ENV6046 - Membrane Mass Transfer

Course Title
Membrane Mass Transfer

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ENV 6015 or C.I.

Course Description
Introduction to modeling of mass transfer in membrane systems; membrane morphology, mathematical development of mass transfer coefficients; fouling mechanisms, system modeling, and applications.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

ENV6047 - Environmental Informatics and Remote Sensing

Course Title
Environmental Informatics and Remote Sensing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Discussion of how the environmental informatics, including hydroinformatics, can be applied for sustainable decision making with the emphasis on remote sensing, GIS, expert systems, decision support systems, data mining, and environmental management.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
ENV6106 - Theory and Practice of Atmospheric Dispersion Modeling

Course Title
Theory and Practice of Atmospheric Dispersion Modeling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- C.I.

Course Description
Atmospheric composition and dynamics. Engineering methods of mathematical modeling, both for point source and mobile source. Current computer models will be used.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Even Spring

ENV6126 - Design of Air Pollution Controls

Course Title
Design of Air Pollution Controls

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Current methods for engineering design and performance analysis of air pollution control equipment to include scrubbers, baghouses, electrostatic precipitators, VOC incinerators, others.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Odd Spring
ENV6128 - Smart Air Quality Monitoring and Air Pollution Control

Course Title
Smart Air Quality Monitoring and Air Pollution Control

Credits Hours
3

Prerequisites
- CGN 5555.

Course Description
This course will introduce science and engineering principles in smart air pollution measurement and control. Hands-on experiences are also provided.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Fall

ENV6519 - Aquatic Chemical Processes

Course Title
Aquatic Chemical Processes

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EES 4202C and EES 4111C or C.I.

Course Description
The applicability of water chemistry and physical chemistry on natural waters and waste-water with emphasis on environmental engineering problems.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
**EN6533 - Smart Water and Wastewater Management**

**Course Title**
Smart Water and Wastewater Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ENV 3001 with a grade of "C" (2.0) or better or C.I.

**Course Description**
This course introduces the concepts of smart water and wastewater systems and how advanced technology are being used for sustainable urban development.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Fall

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**EN6558 - Industrial Waste Treatment**

**Course Title**
Industrial Waste Treatment

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ENV 4561.

**Course Description**
Theories, methods, unit operations of management, reduction, treatment, disposal of industrial wastes.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Occasional
ENV6616 - Ecological Engineering and Receiving Water Impacts

Course Title
Ecological Engineering and Receiving Water Impacts

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ENV 5517 or C.I.

Course Description
Ecological engineering principles, ecosystem restoration and receiving water impacts. Introduction of green building design and integration of new ecosystem associated with green infrastructures and applications for eco-city design.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

ENV6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

ENV6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering
ENV6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering

ENV7919 - Research
Course Title
Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Civil, Environmental, and Construction Engineering

ENY - Entomology

ENY5006C - Entomology
Course Title
Entomology
Credits Hours
4
Lab/Studio/Field Work Hours
6
Course Description
Morphology, physiology, ontogeny, behavior, ecology and population biology of insects
College
College of Sciences
Department
Department of Biology
Terms of Offering
Odd Fall
Current Fee Per Student
$40.00
ENY5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Biology

ENY5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Biology

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EPD - Education: Physical & Multiple Disabilities

EPDS395 - Physical and Sociological Implications of Handicapping Conditions
Course Title
Physical and Sociological Implications of Handicapping Conditions
Credits Hours
3
Lab/Studio/Field Work Hours
0
Course Description
Overview of physical and sociological factors which may contribute to delayed learning or physical impairments in the exceptional populations. Physical interventions and first-aid practices are examined.
College
College of Community Innovation and Education
Department
School of Teacher Education

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ESE - Education: Secondary
ESE5214 - Secondary School Curriculum Improvement I

Course Title
Secondary School Curriculum Improvement I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Regular Certificate or C.I.

Course Description
Secondary School self studies for curriculum projects, accreditation reports, or staff development.

College
College of Community Innovation and Education

Department
School of Teacher Education

ESE5344 - Managing the Secondary Classroom

Course Title
Managing the Secondary Classroom

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Strategies, methods, materials, and technologies for managing the secondary classroom. Creating positive classroom environments, maintaining/increasing appropriate behaviors, and teaching behavior appropriate to all students.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall
ESE5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Education and Human Performance

Department
Teaching and Learning Principles Department

ESE6036 - Contemporary Issues in Secondary Education

Course Title
Contemporary Issues in Secondary Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate Standing or C.I. Examination of contemporary issues in secondary education at the local and national levels. Students will identify, define, and analyze important problems facing secondary schools.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
ESE6217 - Curriculum Design

Course Title
Curriculum Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Basic Teacher Certificate or C.I.

Course Description
Goal analysis, task analysis, needs assessment, and writing performance objectives for developing courses of study.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Fall

ESE6256 - Critical Issues in Secondary Education

Course Title
Critical Issues in Secondary Education

Credits Hours
1 - 3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDG 6415

Corequisites
- Graduate Internship.

Course Description
Examination of critical issues in secondary education including topics such as classroom and behavior management, technology, and current issues.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Odd Spring
Even Spring

2021-2022 Graduate Catalog
ESE6416 - Curriculum Evaluation

**Course Title**
Curriculum Evaluation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ESE 6217 or an equivalent curriculum course.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

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ESE6427 - Capstone: Action Research in Secondary Education

**Course Title**
Capstone: Action Research in Secondary Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
ESE 5XXX Managing Secondary Classroom, EDF 6472, ESE 6XXX (Contemporary Issues in Secondary Education), EME 6602, LAE 5496. Capstone course for Secondary Education MEd. Engage in action research analyzing an issue or challenge in their own classroom practice.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Fall

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ESE6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education
ESE6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

ESE6935 - Introductory Seminar in Secondary Education

Course Title
Introductory Seminar in Secondary Education

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to graduate program or C.I.

Course Description
Overview of Master of Teaching policies and expectations, and exploration on the teaching profession in terms of professional organizations, accomplished practices, publications, issues, and terminology.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Occasional
ESE6936 - Capstone Seminar in Secondary Education

Course Title
Capstone Seminar in Secondary Education

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- ESE 6935 or C.I.

Course Description
As a culminating experience, this seminar provides students with the opportunity to synthesize what they have learned throughout their Master of Arts in Teaching program through completion of a portfolio and reflective analysis of learning.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Occasional

ESE6938 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

ESI - Engineering System-Industrial
ESI5219 - Engineering Statistics

Course Title
Engineering Statistics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Discrete and continuous probability distributions, hypothesis testing, regression, nonparametric stats and ANOVA.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring
Fall

ESI5227 - Total Quality Improvement

Course Title
Total Quality Improvement

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 3032 or equivalent.

Course Description
Quality improvement (QI) tools and techniques, advanced QI techniques, quality improvement systems, total quality management concepts and implementation, planning and management tools, and case studies.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Occasional
ESI5236 - Reliability Engineering

Course Title
Reliability Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ESI 4234 or equivalent, or C.I.

Course Description
Reliability theory and modeling approaches. Topics include: failure data analysis, maintainability, reliability standards (DOD), software reliability, reliability in design, and electronic systems reliability.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Fall

ESI5250 - Engineering Statistics in Health Systems

Course Title
Engineering Statistics in Health Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Healthcare Systems Engineering track of the Industrial Engineering MS Program.

Course Description
Data collection, descriptive statistics, discrete and continuous probability distributions, sampling techniques, statistical estimation, hypothesis testing, regression, nonparametric stats and ANOVA applied to Health Systems.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Summer
Fall
ESI5306 - Operations Research

Course Title
Operations Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 3032.

Course Description
Methods of operations research, including formulation for models and derivation of solutions; linear programming, network models queueing theory, simulation, and nonlinear optimization techniques.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Fall

ESI5359 - Risk Assessment and Management

Course Title
Risk Assessment and Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ESI 5219 or STA 3032.

Course Description
Problems and complexities involved in risk assessment and management. Selected methodologies are illustrated through realistic applications in engineering and the sciences.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Occasional
ESI5526C - Discrete Event Simulation in Health Systems

Course Title
Discrete Event Simulation in Health Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ESI 5219 (or equivalent statistics course)

Course Description
Topics include operational modeling of patient flow, provider assignment, facility and asset utilization, care protocol planning, and optimization through Health Technology Assessment in Health Systems.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Fall

ESI5531 - Discrete Systems Simulation

Course Title
Discrete Systems Simulation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 3032.

Course Description
Methods for performing discrete systems simulation, including network modeling, will be treated.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring
ESI5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Engineering and Computer Science
Department
Department of Industrial Engineering and Management Systems

ESI5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Engineering and Computer Science
Department
Department of Industrial Engineering and Management Systems

ESI6217 - Statistical Aspects of Digital Simulation
Course Title
Statistical Aspects of Digital Simulation
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- ESI 5219 or C.I.
Course Description
Statistical issues in digital simulation including input data analysis, pseudorandom number generation, experimental design, and simulation output analysis.
College
College of Engineering and Computer Science
Department
Department of Industrial Engineering and Management Systems
Terms of Offering
Odd Spring
ESI6224 - Quality Management

Course Title
Quality Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 3032 or equivalent or C.I.

Course Description
Philosophy and concepts of quality management, organization for quality, quality cost, quality audits and corrective actions, tools and techniques for improvement.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring

ESI6225 - Quality Design and Control

Course Title
Quality Design and Control

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 3032 or equivalent.

Course Description
Concepts and methods for quality design and control, including statistical process control (SPC), control charts, process capability, product and process design and improvement, Taguchi methods, case studies. May be repeated for credit.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Fall
ESI6247 - Experimental Design and Taguchi Methods

Course Title
Experimental Design and Taguchi Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
● STA 3032 or ESI 4234.

Course Description
Introduction to Taguchi Concepts and Methodologies, use of design of experiments for quality design and improvement.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring

ESI6251C - Engineering Quality in Health Systems

Course Title
Engineering Quality in Health Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
● Risk Assessment and Management in Health Systems and Advanced Engineering Economics in Health Systems.

Course Description
Topics include quality management in health systems, engineering roles for the organization, quality costing, quality auditing, and corrective action activities; including tools and techniques for improvement.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring
ESI6252C - Managing Engineering Risk in Health Systems

Course Title
Managing Engineering Risk in Health Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Healthcare Systems Engineering track of the MS in Industrial Engineering program in the UCF College of Engineering and Computer Science.

Course Description
Topics include risk assessment, management, spectrum of risks for near miss and adverse event management. Selected methodologies are illustrated through realistic applications in Health systems.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring

ESI6261 - Service System Quality Engineering

Course Title
Service System Quality Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 3032 or equivalent or C.I.

Course Description
Philosophy and concepts of managing, organizing, planning, controlling and motivating for quality, quality cost, tools, and techniques for improvement, special topics in travel and analytics.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Fall
ESI6336 - Queueing Systems

**Course Title**
Queueing Systems

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ESI 5219.

**Course Description**
Analysis of queueing systems and waiting line problems using analytical and Monte Carlo methods. Laboratory assignments.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Odd Spring

ESI6358 - Decision Analysis

**Course Title**
Decision Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ESI 4312 or ESI 5306.

**Course Description**
Classical Bayesian analysis; utility and its measurement; multiattribute utility methods; influence diagrams; Analytic Hierarchy Process; behavioral aspects; simulation.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Fall
ESI6418 - Linear Programming and Extensions
Course Title
Linear Programming and Extensions

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ESI 4312 or ESI 5306.

Course Description
Simplex and Revised Simplex Method; interior-point methods; duality; large-scale optimization; decomposition algorithms; upper bounds; linearization; parametric LP; goal programming.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Even Spring

ESI6511 - Systems Integration and Testing
Course Title
Systems Integration and Testing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ESI 6552.

Course Description
This course focuses on the application of systems engineering principles to the integration and test and evaluation of system elements and, ultimately, of the total system.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Fall
ESI6532 - Object-Oriented Simulation

Course Title
Object-Oriented Simulation

Credits Hours
3

Lab/Studio/Field Work Hours
2

Course Description

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Even Spring

ESI6534 - Agent-Based Modeling of Social Systems

Course Title
Agent-Based Modeling of Social Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

❖ Graduate Standing.

Course Description
The goal of this course is to teach students the fundamentals methods for building Agent-Based Models of social, economic, and engineered systems

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring
ESI6535 - Advanced Agent-Based Modeling

Course Title
Advanced Agent-Based Modeling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
This course discusses advanced methods for building agent-based models of social, economic, biological and engineered systems. Methods include machine learning, data science, network science, and inverse generative processes.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring

ESI6550 - Systems Thinking in Engineering

Course Title
Systems Thinking in Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ESI 6551 or C.I.

Course Description
This class shows how it is possible to use system thinking in order to properly define, conceive, develop, and articulate complex systems and explore 2nd and 3rd order effects of their behavior.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring
ESI6551 - Systems Engineering

Course Title
Systems Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing with an earned graduate degree in a technical discipline (waivable for significant industry experience).

Course Description
Introduction to heuristics approach to the process of systems architecting in business, economics, social, urban, military and government domains emphasizing the conceptual representation and acceptance phases.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Fall

ESI6552 - Systems Architecture

Course Title
Systems Architecture

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ESI 6551.

Course Description
This course discusses the processes and fundamentals of system architecting to include software such as SySML, modeling system, requirements, structure, and behavior.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Spring
ESI6609 - Industrial Engineering Analytics for Healthcare

**Course Title**
Industrial Engineering Analytics for Healthcare

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
ESI 5219 or C.I. Course includes an overview of major data analytics algorithms and methods introduced through examples from Healthcare.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Fall

ESI6891 - IEMS Research Methods

**Course Title**
IEMS Research Methods

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- ESI 5219.

**Course Description**
Assist students in producing publishable research and to introduce new tools which may be needed for collection and analysis of research data.

**College**
College of Engineering and Computer Science

**Department**
Department of Industrial Engineering and Management Systems

**Terms of Offering**
Fall
ESI6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

ESI6918 - Directed Study

Course Title
Directed Study

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

ESI6938 - Seminar in Advanced Industrial Engineering

Course Title
Seminar in Advanced Industrial Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Graduate standing.

Course Description
This course will teach advanced methods and applications in the field of agent-based modeling, simulation and analysis.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems
ESI7480 - Optimization and Data Mining for Industrial Engineers

Course Title
Optimization and Data Mining for Industrial Engineers

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ESI 5306 or ESI 6418.

Course Description
The course introduces basic optimization theory and related data analysis algorithms for industrial engineering and data mining applications.

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

Terms of Offering
Odd Fall

ESI7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Industrial Engineering and Management Systems

EUH - European History
EUH5208 - Colloquium in Early Modern History

**Course Title**
Colloquium in Early Modern History

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing or C.I. Readings and discussion on selected topics in the historiography of Early Modern Europe (circa 1400 to 1800).

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Occasional

EUH5419 - Colloquium in Roman History

**Course Title**
Colloquium in Roman History

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Readings in selected topics in the history of Ancient Rome. May be used in the degree program a maximum of 2 times only when course content is different.

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Occasional
EUH5459 - Colloquium in French History

Course Title
Colloquium in French History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Readings in selected topics in French History. May be used in the degree program a maximum of 3 times.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Even Summer

EUH5546 - Colloquium: British History

Course Title
Colloquium: British History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
Selected topics in British history. There is no standard syllabus because content is different with each offering. May be repeated for credit only when course content is different.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

2021-2022 Graduate Catalog
EUH5579 - Colloquium in Soviet Russia

**Course Title**
Colloquium in Soviet Russia

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status or senior standing or C.I.

**Course Description**
Reading and class discussion of the literature on selected topics in Russian history, 1911-present.

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Occasional

EUH5905 - European Imperialism

**Course Title**
European Imperialism

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Readings in selected topics in the history of European Imperialism. May be used in the degree program a maximum of 3 times only when course content is different.

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Occasional
EUH5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of History

EUH5925 - Colloquium in Medieval Europe
Course Title
Colloquium in Medieval Europe
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
• Graduate standing or C.I.
Course Description
Readings in selected topics in the history of medieval Europe. May be used in the degree program a maximum of 3 times only when course content is different.
College
College of Arts and Humanities
Department
Department of History
Terms of Offering
Occasional

EUH5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of History
EUH6909 - Research Report  
**Course Title**  
Research Report  

**Credits Hours**  
1 - 99  

**College**  
College of Arts and Humanities  

**Department**  
Department of History  

EUH6918 - Directed Research  
**Course Title**  
Directed Research  

**Credits Hours**  
1 - 99  

**College**  
College of Arts and Humanities  

**Department**  
Department of History  

EUH6938 - Special Topics  
**Course Title**  
Special Topics  

**Credits Hours**  
3  

**College**  
College of Arts and Humanities  

**Department**  
Department of History
EUH6939 - Seminar in European History

Course Title
Seminar in European History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Research seminar on selected topics in European history. May be repeated for credit only when course content is different.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Odd Spring

EUH6971 - Treatise (Thesis or Research Report)

Course Title
Treatise (Thesis or Research Report)

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of History

EXP - Experimental Psychology
EXP5208 - Sensation and Perception

Course Title
Sensation and Perception

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
A study involving human information processing with regard to physical and psychological variables in sensory and perceptual phenomena.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Odd Spring

EXP5254 - Human Factors and Aging

Course Title
Human Factors and Aging

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status, or C.I.

Course Description
Drawing from human factors, ergonomics, and aging, this course discusses methods for enhancing the independence and quality of life of older adults and caregivers.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Even Fall
**EXP5256 - Human Factors I**

**Course Title**
Human Factors I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status or senior standing or C.I.

**Course Description**
Survey of human factors literature. Introduction to topics including human capabilities and human interfaces with human-machine systems.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Fall

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**EXP5917 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Psychology

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**EXP5937 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Psychology
EXP6116 - Visual Performance

Course Title
Visual Performance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EXP 5208 or C.I.

Course Description
The psychology, physics and physiology of vision with an emphasis on the human visual response and applications of vision research.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Spring

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EXP6255 - Human Performance

Course Title
Human Performance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EXP 6506 and (EXP 5256 or EXP 6257), or C.I.

Course Description
Human performance dimensions and concepts of assessment of human capabilities; performance acquisition, information processing and decision making; applications of principles to the understanding of stress and performance effectiveness.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Fall
EXP6257 - Human Factors II

Course Title
Human Factors II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EXP 5256.

Course Description
The second in the series of basic human factors courses involving an in-depth examination of issues.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Spring

EXP6258 - Human Factors III

Course Title
Human Factors III

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EXP 5256, EXP 6257.

Course Description
The third in the series of basic human factors courses. Current topics in human factors, exchange of information on practical field experience in human factors.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Fall
EXP6506 - Human Cognition and Learning

Course Title
Human Cognition and Learning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EXP 3404C and EXP 3604C.

Course Description
Research and theory relating to attention, memory, problem solving, and reasoning.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Fall

EXP6541 - Advanced Human Computer Interaction

Course Title
Advanced Human Computer Interaction

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EIN 6258 or C.I.

Course Description
Principles and guidelines of advanced human computer interaction as they apply to a variety of complex human machine systems.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Spring
EXP6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Psychology

EXP6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Psychology

EXP6939 - Teaching Seminar

Course Title
Teaching Seminar

Credits Hours
3 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Orientation to and supervision in teaching assigned courses.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional
EXP6945 - Human Factors Internship

**Course Title**
Human Factors Internship

**Credits Hours**
8

**Lab/Studio/Field Work Hours**
12

**Prerequisites**
- EXP 5256, EXP 6257, PSY 6216C, PSY 7218C, EXP 6255, or C.I.

**Course Description**
Supervised placement in an industrial, governmental, or consulting setting. Student completes a specific project under the supervision of an organizational sponsor and a faculty member.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional

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EXP7919 - Research

**Course Title**
Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Psychology

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FIL - Film
FIL5141C - Feature/TV Writing

Course Title
Features/TV Writing

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
Admitted to the Emerging Media MFA, Entrepreneurial Digital Cinema Track, and C.I.

Course Description
Writing workshop, examination of mythic storytelling, and ethics of scriptwriting.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

FIL5371C - Documentary Production

Course Title
Documentary Production

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
Admitted to the Emerging Media MFA, Entrepreneurial Digital Cinema Track or C.I.

Course Description
Tutorial-based studio course in which students author and apply narrative structure and production techniques to nonfiction film.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring
FIL5406 - Theories of Film Production

Course Title
Theories of Film Production

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Film MFA student or C.I.

Course Description
Comparative analysis of motion picture production methodologies, including the studio industrial model, from a historical/critical perspective.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring

FIL5419 - Developing the Film Screenplay

Course Title
Developing the Film Screenplay

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Admission to MFA Film and Digital Media-Entre Dig Cin track, or C.I.

Course Description
Development of an existing, original screenplay to fit the demands, limits, and possibilities of the microbudget, digital film paradigm.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall
FIL5422C - Experimental Cinema

Course Title
Experimental Cinema

Credits Hours
3

Lab/Studio/Field Work Hours
4

Prerequisites
- Admitted to the Emerging Media MFA, Entrepreneurial Digital Cinema Track or C.I.

Course Description
Tutorial-based studio course in which students author and apply narrative structure and production techniques to experimental film.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring

FIL5800 - Research Methods in Film and Digital Media

Course Title
Research Methods in Film and Digital Media

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Film and Digital Media graduate program or C.I.

Course Description
Research methodology for the study and production of film and new media.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Spring
FIL5809 - Independent Cinema

Course Title
Independent Cinema

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Emerging Media MFA, Feature Film Production Track or C.I.

Course Description
Advanced analysis and research of independent cinema.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional

FIL5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Nicholson School of Communication and Media
FIL5924 - Graduate Seminar

Course Title
Graduate Seminar

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MFA Film and Digital Media/Entrepreneurial Digital Cinema track, or C.I.

Course Description
Strategies for a successful graduate experience, and forum for modes of inquiry, film technique, production and distribution issues; and thesis defense preparation.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

FIL5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Nicholson School of Communication and Media

FIL5944 - Internship

Course Title
Internship

Credits Hours
1 - 99

College
College of Sciences

Department
Nicholson School of Communication and Media
**FIL6146 - Screenplay Refinement**

**Course Title**
Screenplay Refinement

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to Emerging Media MFA program, FIL 5419 or C.I. Refining a feature film script into an effective, compelling, easy to read, and "marketable" shooting script that forms the foundation for thesis film production. May be used in the degree program a maximum of 2 times.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Spring

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**FIL6454 - Microbudget Production Design**

**Course Title**
Microbudget Production Design

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Film and Digital Media graduate program or C.I.

**Course Description**
Aesthetic principles as applied to production design of low-budget projects.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Occasional
FIL6596 - Advanced Directing Workshop for Film and Digital Media

Course Title
Advanced Directing Workshop for Film and Digital Media

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MFA Film and Digital Media-Entre Dig Cin track or C.I.

Course Description
Advanced directorial concepts and techniques used in film to elicit, support and direct compelling film performances. May be used in the degree program a maximum of 2 times only when course content is different.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
- Spring
- Fall

Current Fee Per Student
$70.00

FIL6614 - Domestic and International Models of Distribution

Course Title
Domestic and International Models of Distribution

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Film or Digital Media graduate program or C.I.

Course Description
Global media distribution business models, with emphasis on independent film distribution in a variety of markets, including theatrical, home video, and internet.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
- Occasional
FIL6619 - Guerilla Marketing and Models of Distribution

Course Title
Guerilla Marketing and Models of Distribution

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Emerging Media MFA program, graduate standing, or C.I. Grass roots and non-traditional marketing strategies for film and media products. Global media distribution business models in a variety of markets.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Fall

FIL6640 - Microbudget Production Management

Course Title
Microbudget Production Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Film or Digital Media graduate program or C.I.

Course Description
Strategies for budgeting and scheduling low-budget films and digital media products.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional
FIL6644 - Microbudget Pre-Production

**Course Title**
Microbudget Pre-Production

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Emerging Media MFA program, FIL 6146, or C.I.

**Course Description**
Examination of pre-production issues facing filmmakers working with low budgets, with focus on creative concept, design, style, and location selection.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Fall

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FIL6649 - Microbudget Post-Production

**Course Title**
Microbudget Post-Production

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Emerging Media MFA program, FIL 6644, or C.I.

**Course Description**
Continued examination of production challenges that are unique to filmmakers working with extremely limited budgets, including casting, schedules, and set management.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Spring
FIL6733 - Arts and Media Entrepreneurship

**Course Title**
Arts and Media Entrepreneurship

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to Emerging Media MFA program, graduate standing, or C.I. Application of core business concepts to create a company and develop a sales proposal suited to a variety of potential arts and emerging investors.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Fall

FIL6908 - Independent Study

**Course Title**
Independent Study

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

FIL6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media
FIL6938 - Special Topics/Seminar
Course Title
Special Topics/Seminar
Credits Hours
1 - 99
College
College of Sciences
Department
Nicholson School of Communication and Media

FIL6958 - Study Abroad
Course Title
Study Abroad
Credits Hours
1 - 99
College
College of Sciences
Department
Nicholson School of Communication and Media
Terms of Offering
Occasional

FIL6971 - Thesis
Course Title
Thesis
Credits Hours
1 - 99
College
College of Sciences
Department
Nicholson School of Communication and Media

FIN - Finance

FIN5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Finance
FIN5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Business Administration

Department
Department of Finance

FIN6406 - Strategic Financial Management

Course Title
Strategic Financial Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MBA Professional Core I or C.I.

Course Description
Emphasis on the theory and analytical techniques associated with the major financial decisions of corporate management, including risk analysis, capital budgeting, short- and long-term financial management.

College
College of Business Administration

Department
Department of Finance

Terms of Offering
Spring
Fall
FIN6465 - Financial Analysis Seminar

Course Title
Financial Analysis Seminar

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Seminar in financial analysis; examining financial statements, annual reports and other sources of information. Not open to students who have completed or are enrolled in GEB 6895.

College
College of Business Administration

Department
Department of Finance

Terms of Offering
Occasional

FIN6515 - Analysis of Investment Opportunities

Course Title
Analysis of Investment Opportunities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, FIN 6406 or C.I.

Course Description
Deals with the theory and tools of analysis required in the management of financial assets.

College
College of Business Administration

Department
Department of Finance

Terms of Offering
Fall
FIN6777 - FinTech Entrepreneurship

Course Title
FinTech Entrepreneurship

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into the FinTech MS program.

Corequisites
- Complete the following:
  - FIN6779 - FinTech in Decision Making (3)

Course Description
This course will help students identify financial sectors that have been disrupted by FinTech or those that are ripe for disruption.

College
College of Business Administration

Department
Department of Finance

Terms of Offering
Fall

FIN6778 - Foundations of FinTech

Course Title
Foundations of FinTech

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into the FinTech MS program.

Course Description
This course provides an overview of the emerging FinTech discipline and how innovations and new technologies are transforming conventional financial markets and services.

College
College of Business Administration

Department
Department of Finance

Terms of Offering
Spring
FIN6779 - FinTech in Decision Making

Course Title
FinTech in Decision Making

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into the FinTech MS program.

Course Description
The objective of this course is to provide an introduction to business intelligence and analytics applied to the financial world.

College
College of Business Administration

Department
Department of Finance

Terms of Offering
Fall

FIN6909 - Research Project

Course Title
Research Project

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Finance

FIN6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Finance
FIN6938 - Special Topics: Foundations of FinTech

Course Title
Special Topics: Foundations of FinTech

Credits Hours
3

Prerequisites
- FIN 6406 Strategic Financial Management.

Course Description
This course provides an overview of the emerging Fintech discipline and how innovations and new technologies are transforming conventional financial markets and services.

College
College of Business Administration

Department
Department of Finance

FIN7807 - Corporate Finance Theory

Course Title
Corporate Finance Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Business doctoral program and FIN 6406 or equivalent; ECO 6416 or equivalent; or C.I.

Course Description
Elaborate coverage of significant theoretical/classical literature and review of empirical literature to provide a sound framework of conceptual knowledge for doctoral students.

College
College of Business Administration

Department
Department of Finance

Terms of Offering
Odd Fall
FIN7808 - Introduction to the Theory of Finance

Course Title

Introduction to the Theory of Finance

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- Admission to Business PhD program and FIN 6406 or equivalent, or C.I.

Course Description

This course provides an introduction to decisions and equilibrium under uncertainty, portfolio theory, asset pricing models, option pricing, capital structure, and agency theory.

College

College of Business Administration

Department

Department of Finance

Terms of Offering

Occasional

FIN7816 - Investment Theory

Course Title

Investment Theory

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- Admission to business doctoral program, FIN 7807, QMB 7565, and C.I.

Course Description

Extensive coverage of theoretical and empirical literature dealing with modern investment thought, portfolio theory, capital market equilibrium, and related topics.

College

College of Business Administration

Department

Department of Finance

Terms of Offering

Even Fall
FIN7845 - Empirical Methods I
Course Title
Empirical Methods I
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
✦ Admission to Business doctoral program.
Course Description
Course will provide a rigorous introduction to the modern empirical toolkit that is used in corporate finance and investments.
College
College of Business Administration
Department
Department of Finance
Terms of Offering
Fall

FIN7864 - Empirical Methods II
Course Title
Empirical Methods II
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
✦ Admission to doctoral program; completion of FIN 7845 and FIN 7808.
Course Description
Course covers advanced topics in empirical methods in studies of asset pricing and corporate finance.
College
College of Business Administration
Department
Department of Finance
Terms of Offering
Spring
FIN7919 - Research
Course Title
Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Finance

FIN7935 - Finance Research Forum
Course Title
Finance Research Forum
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to Business PhD program and FIN 6406 or equivalent, or C.I.
Course Description
Research and pedagogical issues in finance, including research presentations by faculty, doctoral students, and invited scholars. May be used in the degree program a maximum of 6 times.
College
College of Business Administration
Department
Department of Finance
Terms of Offering
Occasional

FIN7939 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Business Administration
Department
Department of Finance

FLE - Foreign Language Education
FLE5345 - Teaching World Languages in K-12 Schools

Course Title
Teaching World Languages in K-12 Schools

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing.

Course Description
Methods of teaching another language at the K-12 level within a communicative framework. Includes examination and practice of current instructional techniques in listening, speaking, reading, writing skills, testing, and error correction.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring

FLE5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

FLE5937 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education
FLE6695 - Professional Development in Foreign Language Education

Course Title
Professional Development in Foreign Language Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- FLE 4333 Foreign Language Teaching in the Secondary School or teaching experience.

Course Description
Fluency in the target language and English. Introduction to the professional development of the foreign language educator by means of instruction in action research, grant writing, and writing for publication/conference presentation.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Occasional

FLE6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

FLE6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education
FLE6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education

FSS - Food Service Systems

FSS5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

FSS5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management
FSS6365 - Management of Food Service Operations

**Course Title**
Management of Food Service Operations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
The examination of techniques and mechanisms employed in the management of food service operations. Comparisons, case studies, and selected topics focus on private and public operations.

**College**
Rosen College of Hospitality Management

**Department**
Department of Foodservice and Lodging Management

**Terms of Offering**
Odd Spring

FSS6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
Rosen College of Hospitality Management

**Department**
Department of Foodservice and Lodging Management

FSS6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
Rosen College of Hospitality Management

**Department**
Department of Foodservice and Lodging Management
**FSS6938 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
Rosen College of Hospitality Management

**Department**
Department of Foodservice and Lodging Management

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**GEB - General Business**

**GEB5516 - Technological Entrepreneurship**

**Course Title**
Technological Entrepreneurship

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Focus of the course is on identification, evaluation and commercialization of new technologies. Emphasis will be placed on the legal, financial and strategy aspects of technology transfer and development.

**College**
College of Business Administration

**Department**
Department of Management

**Terms of Offering**
Occasional

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**GEB5917 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Business Administration

**Department**
Department of Management
GEB5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Business Administration

Department
Department of Management

GEB6037 - Business Foundations and Career Development

Course Title
Business Foundations and Career Development

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Integrated Business track of the Masters of Science in Management.

Course Description
Provides an introduction to the essential functions of modern business management. Students identify personal interests, knowledge, skills, and abilities and connect them to career opportunities.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Fall
GEB6115 - Entrepreneurship

Course Title
Entrepreneurship

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Seminar on topics concerning the entrepreneurial process in small and large organizations, including needs assessment, sources and methods of innovation, financing, and barriers to entrepreneurship.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Fall
Odd Summer

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GEB6116 - Business Plan Formation

Course Title
Business Plan Formation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- GEB 6115 or GEB 6518 or MBA Foundation Core.

Course Description
Professional development and preparation of company business plan. Full analysis of plan and outside evaluation and ranking.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Occasional
GEB6156 - The Business of Hip-Hop Innovation and Entrepreneurship

**Course Title**
The Business of Hip-Hop Innovation and Entrepreneurship

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Hip-Hop culture has evolved from two turntables and a microphone to a billion-dollar industry with infinite business lessons related to innovation and entrepreneurship.

**College**
College of Business Administration

**Department**
Department of Management

**Terms of Offering**
Summer

GEB6365 - International Business Analysis

**Course Title**
International Business Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MBA Professional Core I.

**Course Description**
Extensive coverage of international business environment with emphasis on the functional operation of multinational firms.

**College**
College of Business Administration

**Department**
Department of Finance

**Terms of Offering**
Spring
GEB6518 - Strategic Innovation
Course Title
Strategic Innovation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
An in-depth examination of strategic and innovation processes as they relate to emerging technologies from invention to commercialization.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Occasional

GEB6895 - Business Intelligence
Course Title
Business Intelligence

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Consent of College of Business Graduate Studies.

Course Description
Study of the sources, acquisition, warehousing, analysis, and application of data pertaining to business decision-making in the firm.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Occasional
GEB6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Management

GEB6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Management

GEB6938 - Special Topics
Course Title
Special Topics
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Management

GEB6949 - Cooperative Education in General Business
Course Title
Cooperative Education in General Business
Credits Hours
0 - 99
College
College of Business Administration
Department
Department of Management
GEB7911 - Structural Equation Modeling for Business Research

Course Title
Structural Equation Modeling for Business Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ECO 7423, MAR 7626.

Course Description
Applications of structural equation modeling (SEM) for business research including factor analysis, aspects of measurement theory, mathematical and technical issues about model fitting are covered.

College
College of Business Administration

Department
Department of Management

GEB7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Management

GEB7939 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Business Administration

Department
Department of Management

GEO - Geography
GEOS917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
School of Politics, Security, and International Affairs

GEY - Gerontology

GEY5007 - Women and Healthy Aging

Course Title
Women and Healthy Aging

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or senior undergraduate.

Course Description
The examination of the health promotion opportunities and bio-psycho-social challenges of women as they age.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring
GEYS600 - Physiology of Aging

Course Title
Physiology of Aging

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
BSC 2010C or PCB 3703C or APK 4110C or equivalent. The purpose of this course is to develop the student's understanding of the effects of human aging on various body systems.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Occasional

GEYS648 - Gerontology: An Interdisciplinary Approach

Course Title
Gerontology: An Interdisciplinary Approach

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
The study of aging will be presented from an interdisciplinary and multidisciplinary approach spanning the social sciences and health.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Occasional
GEY5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology

GEY5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Psychology

GLY - Geology

GLY5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Chemistry

GLY5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Chemistry
GMS - Graduate Medical Sciences

GMS6860 - Statistics for Biomedical Scientists
Course Title
Statistics for Biomedical Scientists

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Introductory graduate course for Biomedical Sciences or related majors; outlines basic probabilistic and statistical concepts tailored to biomedical scientists. The course will be taught jointly by the Burnett School of Biomedical Sciences and Statistics Department with 50/50 work load split.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Occasional

HFT - Hotel and Restaurant

HFT6949 - Cooperative Education in Hotel and Restaurant
Course Title
Cooperative Education in Hotel and Restaurant

Credits Hours
0 - 99

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

HIM - Health Information Management
HIM518C - Health Care Informatics and Information Technology

**Course Title**
Health Care Informatics and Information Technology

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission to M.S. in Health Care Informatics or C.I.

**Course Description**
An overview of the current state of health care informatics including existing and future technologies. Areas of emphasis include EHR, HIE, Standards, and clinical decision making.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Fall

HIM5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

HIM5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics
HIM6007 - Survey of Health Information Management

Course Title
Survey of Health Information Management

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
• Admission to Health Care Informatics or C.I.

Course Description
Provide students with an understanding of computer information systems utilized in a health care environment.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Fall

HIM6119C - Biostatistics and Decision Analysis

Course Title
Biostatistics and Decision Analysis

Credits Hours
4

Lab/Studio/Field Work Hours
1

Prerequisites
• Admission to M.S in Health Care Informatics or C.I.

Course Description
Selected decision structure and solution techniques. Selection, implementation, and results analysis of key statistical methods to support decision making and policy analysis in health care organizations.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Fall
HIM6121C - Privacy and Security in Health Care Informatics

**Course Title**
Privacy and Security in Health Care Informatics

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
1

**Course Description**
Admission to the Health Care Informatics program or C.I. Focuses on privacy and security issues associated with health care information. Students will evaluate security audits, regulatory policies/laws, and release of information procedures.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Summer

HIM6122C - System Analysis and Design

**Course Title**
System Analysis and Design

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission to M.S. in Health Care Informatics or C.I.

**Course Description**
Analyzing workflow in health care organizations to identify data needs and system elements to support work. Modeling system elements with a variety of traditional and object oriented tools.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Spring
HIM6123C - Project Management in Health Care Informatics

Course Title
Project Management in Health Care Informatics

Credits Hours
4

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to M.S. in Health Care Informatics or C.I.

Course Description
This course integrates clinical, financial and administrative data to resolve managerial and patient care problems.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring

HIM6124C - Health Care Data Architecture and Modeling

Course Title
Health Care Data Architecture and Modeling

Credits Hours
4

Lab/Studio/Field Work Hours
1

Prerequisites
- HIM 5118C or C.I.

Course Description
The course integrates the key issues and techniques surrounding data architecture, modeling and standards in health care informatics.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring
HIM6125 - Health Care Informatics Capstone

**Course Title**
Health Care Informatics Capstone

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- All courses in the M.S. in Health Care Informatics program.

**Course Description**
This course serves as a culminating experience for the HCI program. Students will apply knowledge gained in all courses to a health care informatics related area of study.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Spring

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HIM6217C - Health Care Database Management

**Course Title**
Health Care Database Management

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- HIM 5118C.

**Course Description**
Design and implementation of relational database structures for health care operations. Use of structured query language and reporting tools to manage data.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Fall
HIM6267 - Foundation of Health Services Administration
Course Title
Foundation of Health Services Administration
Credits Hours
1
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to Health Care Informatics or C.I.
Course Description
Provides students with an understanding of the managerial and administrative aspects in a health care environment, as it relates to health care informatics.
College
College of Community Innovation and Education
Department
School of Global Health Management and Informatics
Terms of Offering
Spring

HIM6293 - Health Care Coding and Diagnosis
Course Title
Health Care Coding and Diagnosis
Credits Hours
4
Lab/Studio/Field Work Hours
1
Prerequisites
- Admission to Health Care Informatics master's degree or HIA certificate.
Course Description
Medical Coding and the role it plays in informatics emphasizing document usage and extracting needed data for proper code selection. Data mapping related to ICD-9-CM and ICD-10-CM is explored.
College
College of Community Innovation and Education
Department
School of Global Health Management and Informatics
Terms of Offering
Fall
HIM6464C - Epidemiology, Analytics and Quality Management

**Course Title**
Epidemiology, Analytics and Quality Management

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission to M.S. in Health Care Informatics or C.I.

**Course Description**
This course introduces epidemiological principles and analytics for enhancing utilization management, quality improvement and outcome assessment in the service delivery system.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Summer

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HIM6477 - Medical Terminology for Informatics Professionals

**Course Title**
Medical Terminology for Informatics Professionals

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Health Care Informatics or C.I.

**Course Description**
Provides students with medical terminology used or found in the medical environments and discuss the role the language of medicine plays in informatics.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Fall
HIM6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

HIM6927 - MS Healthcare Informatics Orientation

**Course Title**
MS Healthcare Informatics Orientation

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to M.S. in Health Care Informatics or C.I.

**Course Description**
An orientation course designed to ensure students fully prepare for, identify, and secure an appropriate masters-level healthcare informatics internship.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Fall
HIM6935 - Seminar on Current Issues in Health Care Informatics and Enterprise Management

**Course Title**

Seminar on Current Issues in Health Care Informatics and Enterprise Management

**Credits Hours**

2

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- HIM 5118C; HIM 6119C; HIM 6122C; HIM 6123C.

**Course Description**

This course provides an overview of project management and will expose students to the principles of project management and health care information systems.

**College**

College of Community Innovation and Education

**Department**

School of Global Health Management and Informatics

**Terms of Offering**

Summer

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HIM6947 - MS Healthcare Informatics Internship

**Course Title**

MS Healthcare Informatics Internship

**Credits Hours**

2

**Lab/Studio/Field Work Hours**

240

**Prerequisites**

- HIM 6998, HIM 5118C, HIM 6122C and HIM 6123C.

**Course Description**

Experiential learning course where students apply informatics competencies to solve real-world informatics projects of substantive value under the supervision of an internship site preceptor.

**College**

College of Community Innovation and Education

**Department**

School of Global Health Management and Informatics

**Terms of Offering**

Spring
HIM6971 - Thesis

Course Title
Thesis

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

HIS - General History and Histriography

HIS5067 - Introduction to Public History

Course Title
Introduction to Public History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
Examine and discuss the practice of history in museums, archives, documentary editing, historical publication, media, historical societies, and government agencies.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional
HIS5073 - Oral History

Course Title
Oral History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Theories and practices of oral history. Fieldwork required.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

HIS5083 - Cultural Heritage Management

Course Title
Cultural Heritage Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing, HIS 5067, or C.I. Readings in the debates and issues of international management of cultural heritage and property, including introduction to UNESCO standards.

College
College of Arts and Humanities

Department
Department of History
HIS5088 - Readings in Curation and Public History

**Course Title**
Readings in Curation and Public History

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Readings in the theories, principles, methods, and design for publicly engaged history content and visualization.

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Even Fall

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HIS5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of History
HIS5925 - History in the Digital Age

Course Title
History in the Digital Age

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Readings in the history, theory, and methodologies of digital historical practices from precedents in New Social History to the present, including use in Public History.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Even Fall

HIS5926 - Colloquium: History of Women and Gender

Course Title
Colloquium: History of Women and Gender

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or senior standing or C.I.

Course Description
Readings on selected topics in the history of gender and women.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional
HIS5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Arts and Humanities

**Department**
Department of History

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HIS6094 - Seminar in Curation and New Media

**Course Title**
Seminar in Curation and New Media

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing or C.I. Historical research and application of the theories, principles, methods, and design for visual public history projects produced through new media installations.

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Odd Spring
HIS6096 - Seminar in Historic Preservation

**Course Title**
Seminar in Historic Preservation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Seminar in the theory and work of historic preservation. Research methods, theory, law, and professional standards will be explored through student generated preservation projects.

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Occasional

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HIS6159 - Historiography

**Course Title**
Historiography

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Selected topics in the study of history. May be repeated for credit.

**College**
College of Arts and Humanities

**Department**
Department of History
HIS6165 - Digital Tools for Historians

**Course Title**
Digital Tools for Historians

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing or C.I. Background, theory, and methods of digital history. Students will develop a working knowledge for evaluating and employing digital tools for historical research and presentation.

**College**
College of Arts and Humanities

**Department**
Department of History

HIS6167 - Spatial History

**Course Title**
Spatial History

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate Standing or C.I.

**Course Description**
Discussion of the scholarly literature as well as the application of spatial history research, including geospatial and digital storytelling technologies. May be repeated for credit two times.

**College**
College of Arts and Humanities

**Department**
Department of History

**Terms of Offering**
Occasional
HIS6592 - Seminar in Oral History

Course Title
Seminar in Oral History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Research in oral history. Fieldwork required.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

HIS6905 - History Capstone Class

Course Title
History Capstone Class

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Satisfactory completion of 21 - 24 hours of graduate level course work.

Course Description
Advanced historiographical and bibliographical readings for preliminary exams and submission of a research plan for thesis topic.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional
HIS6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of History

HIS6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of History

HIS6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of History
HIS6942 - Internship

Course Title
Internship

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Graduate internship in public history. Subject may vary. May be used in the degree program a maximum of 2 times.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

HIS6946 - Teaching Practicum

Course Title
Teaching Practicum

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Student observation, participation, direction, and leadership in a college survey course. May be repeated for credit.

College
College of Arts and Humanities

Department
Department of History

Terms of Offering
Occasional

HMG - Hospitality Management Graduate

2021-2022 Graduate Catalog
HMG5907 - Independent Study

Course Title
Independent Study

Credits Hours
1 - 99

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

HMG5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

HMG5937 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

HMG5944 - Internship

Course Title
Internship

Credits Hours
1 - 99

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management
HMG5947 - Experiential Learning Internship
Course Title
Experiential Learning Internship
Credits Hours
0 - 6
College
Rosen College of Hospitality Management
Department
Department of Foodservice and Lodging Management

HMG5957 - Study Abroad
Course Title
Study Abroad
Credits Hours
1 - 99
College
Rosen College of Hospitality Management
Department
Department of Foodservice and Lodging Management

HMG6002 - Advanced Event Design
Course Title
Advanced Event Design
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Complete the following:
  - HMG6507 - Event Trends, Technology and the Macroenvironment (3)
Course Description
Analysis of strategic design principles including technology that affect the production of, and stakeholder experiences with, an event.
College
Rosen College of Hospitality Management
Department
Department of Tourism, Events, and Attractions
Terms of Offering
Every Semester
HMG6010 - Relationship Management in Events

**Course Title**
Relationship Management in Events

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Complete the following:
  - HMG6012 - Events Across Borders (3)

**Course Description**
Synthesis of relationship management constructs as they relate to the various exchanges between event industry organizers, suppliers, sponsors, and human capital.

**College**
Rosen College of Hospitality Management

**Department**
Department of Tourism, Events, and Attractions

**Terms of Offering**
Every Semester

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HMG6101 - Contemporary Issues in Event Management

**Course Title**
Contemporary Issues in Event Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Complete the following:
  - HMG6604 - Legal Environment of Events (3)

**Course Description**
Examining and analyzing contemporary issues facing and shaping the event industry.

**College**
Rosen College of Hospitality Management

**Department**
Department of Tourism, Events, and Attractions

**Terms of Offering**
Every Semester
HMG6012 - Events Across Borders

Course Title
Events Across Borders

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Complete the following:
  - HMG6568 - Destination Planning for Events (3)

Course Description
Analysis of events from an international perspective including evaluation of the design, location and organization of events across international borders.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Every Semester

HMG6220 - The Reflective Leader

Course Title
The Reflective Leader

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Complete the following:
  - HMG6011 - Contemporary Issues in Event Management (3)

Course Description
Leadership through the lens of reflective learning skills, connecting theory with practice and thought with transformative action, to facilitate event strategy development and implementation.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Every Semester
HMG6227 - Advanced Training and Development in the Hospitality Industry

Course Title
Advanced Training and Development in the Hospitality Industry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
This course is designed to give students detailed information on developing, delivering, assessing, and evaluating training and development programs for various segments of the hospitality industry.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Occasional

HMG6228 - Critical Issues in Hospitality Human Resources

Course Title
Critical Issues in Hospitality Human Resources

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate student status.

Course Description
Analysis of HR critical factors affecting operation and profitability of hospitality enterprises. Examination of emotional labor, empowerment, burnout, service orientation, turnover, absenteeism, compensation.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Spring
Fall

2021-2022 Graduate Catalog
HMG6229 - Corporate Social Responsibility and Ethics in the Hospitality and Tourism Industry

Course Title
Corporate Social Responsibility and Ethics in the Hospitality and Tourism Industry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing.

Course Description
An interactive approach to the impact of corporate social values and ethical strategy on management of hospitality and tourism enterprises.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Fall

HMG6245 - Managing Hospitality and Guest Services Organizations

Course Title
Managing Hospitality and Guest Services Organizations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing.

Course Description
Analysis of the unique problems of managing organizations in hospitality and guest services industry.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Fall
HMG6247 - Organizational Communication in Hospitality/Tourism Enterprises

Course Title
Organizational Communication in Hospitality/Tourism Enterprises

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Developing the ability to view communication as an essential skill for demonstrating the knowledge in the areas of hospitality of guest service management, hospitality marketing, and hospitality finance and accounting.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Occasional

HMG6251 - The Management of Lodging Operations

Course Title
The Management of Lodging Operations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Acceptance into the graduate program.

Course Description
Presentation and analysis of the unique management techniques applicable in the diverse segments of the lodging industry.

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

Terms of Offering
Spring
Fall
HMG6267 - Case Studies in Restaurant Management

**Course Title**
Case Studies in Restaurant Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
This elective course will allow students to apply the principles of management, analysis, and planning that they have learned in their prior coursework to issues in multi-unit restaurant operations.

**College**
Rosen College of Hospitality Management

**Department**
Department of Foodservice and Lodging Management

**Terms of Offering**
Occasional

HMG6291 - Hospitality Entrepreneurship: Concept Creation to Capitalization

**Course Title**
Hospitality Entrepreneurship: Concept Creation to Capitalization

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- HMG 6477 or C.I.

**Course Description**
Focus on creating, developing, and designing a unified concept plan, business plan, and investment proposal for a new hospitality business enterprise.

**College**
Rosen College of Hospitality Management

**Department**
Department of Foodservice and Lodging Management

**Terms of Offering**
Occasional
HMGI296 - Hospitality/Tourism Strategic Issues

Course Title
Hospitality/Tourism Strategic Issues

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Enrollment limited to graduating Hospitality Management graduate students.

Course Description
Capstone experience with strategic decision-making principles in hospitality/tourism. Application of skills, knowledge and understanding of areas of concern for formulating and implementing operational strategies.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Every Semester

HMGI347 - Contemporary Issues in the Resort Industry

Course Title
Contemporary Issues in the Resort Industry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate level standing

Course Description
In-depth study of the tools and techniques available for project feasibility and investment.

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

Terms of Offering
Occasional
HMG6446 - Hospitality/Tourism Information Technology

Course Title
Hospitality/Tourism Information Technology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate student status.

Course Description
Analysis and design of hospitality/tourism industry information systems. Data management, system implementation and current trends in hospitality/tourism technology are discussed.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Occasional

HMG6449 - Smart Travel and Tourism

Course Title
Smart Travel and Tourism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 2023, CAP4630 or STA 3032.

Course Description
This course surveys SMART technologies and applications in the travel and tourism industry, emphasizing the systems view of the interactions among humans, environment, and technology.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Spring
HMG6466 - Applied Revenue Management Techniques in Hospitality

Course Title
Applied Revenue Management Techniques in Hospitality

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Builds upon revenue management fundamentals in hospitality and tourism organizations to develop advanced revenue management techniques in optimization, customer segmentation, forecasting and pricing analytics.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Odd Spring

HMG6476 - Feasibility Studies for the Hospitality/Tourism Enterprises

Course Title
Feasibility Studies for the Hospitality/Tourism Enterprises

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Exploration of the many and varied facets of the economic decision making process as it applies to hospitality projects. Components of a financial feasibility study are analyzed as an aid to the decision making process of an investment in the hospitality industry.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Occasional

2021-2022 Graduate Catalog
HMG6477 - Financial Analysis of Hospitality Enterprises

Course Title
Financial Analysis of Hospitality Enterprises

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
◆ Graduate standing.

Course Description
Specialized accounting and finance tools of analysis as related to the hospitality industry. Application of budgeting and pricing models, break-even analysis and internal control.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Occasional

HMG6507 - Event Trends, Technology and the Macroenvironment

Course Title
Event Trends, Technology and the Macroenvironment

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
◆ Admission to the M.S. in Event Leadership.

Course Description
Analysis of how macroenvironmental forces affect the event industry with special attention to technology, sustainability and social responsibility.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Every Semester
HMG6528 - Convention and Conference Sales and Services

Course Title
Convention and Conference Sales and Services

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
A process-oriented approach to selling to the convention/conference market and servicing their events. Analyzes the differences between and among venues and markets.

College
- Rosen College of Hospitality Management

Department
- Department of Tourism, Events, and Attractions

Terms of Offering
- Occasional

HMG6529 - Contemporary Issues in Resort Sales Management

Course Title
Contemporary Issues in Resort Sales Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate level standing.

Course Description
Application and analysis of competitive sales management strategies via critical thinking models, decision-making simulations, and field operation procedures commonly used to manage the sales process. Occasional.

College
- Rosen College of Hospitality Management

Department
- Department of Foodservice and Lodging Management

Terms of Offering
- Occasional

2021-2022 Graduate Catalog
HMG6533 - Hospitality/Tourism Industry Brand Management

Course Title
Hospitality/Tourism Industry Brand Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
This elective course will introduce graduate students to critical topics, both theoretical and applied, that demonstrate why brands are important to consumers of hospitality and tourism services and, consequently, for the successful management of hospitality and tourism corporations.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Occasional

HMG6556 - Digital Marketing and Big Data Management for Hospitality and Tourism

Course Title
Digital Marketing and Big Data Management for Hospitality and Tourism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- HMG 6446 or Graduate Director Permission.

Course Description
Overview of the utilization and application of digital marketing and big data management in the hospitality industry.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Fall
HMG6563 - Marketing of Events

Course Title
Marketing of Events

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Complete the following:
  - HMG6002 - Advanced Event Design (3)

Course Description
Advanced marketing principles, practices and strategies related to the positioning, branding, promotion, and marketing of events.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Every Semester

HMG6565 - Social Media in Hospitality and Tourism

Course Title
Social Media in Hospitality and Tourism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- HMG 6446 or Graduate Director Permission.

Course Description
Analysis of hospitality/tourism industry social media marketing and management strategies.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Spring
HMG6566 - Principles of Destination Marketing and Management

Course Title
Principles of Destination Marketing and Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- HMG 6596.

Course Description
Examines strategies for creating integrated destination marketing and management systems; concepts and strategies for destination competitiveness and sustainability; trends/challenges influencing destination marketing and management.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Occasional

HMG6568 - Destination Planning for Events

Course Title
Destination Planning for Events

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Complete the following:
  - HMG6563 - Marketing of Events (3)

Course Description
Principles, issues, and strategies related to destination policy-making, planning, and management to develop, attract, and retain events at destinations.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Every Semester
HMG6584 - Event Analytics

Course Title
Event Analytics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Complete the following:
  - HMG6010 - Relationship Management in Events (3)

Course Description
Identify, collect, describe, and analyze data using data analytics techniques to make informed decisions in the specific context of event management.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Every Semester

HMG6585 - Data Analysis in Hospitality and Tourism Research

Course Title
Data Analysis in Hospitality and Tourism Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing in Hospitality Management or C.I. Examination of quantitative methods applied in hospitality and tourism research, including identification of data analysis strategies and interpretation of findings. Emphasis on univariate data analyses.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Spring
Fall
HMG6586 - Research Methods in Hospitality and Tourism

**Course Title**
Research Methods in Hospitality and Tourism

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in Hospitality Management or C.I.

**Course Description**
A survey of primary research methods used by decision makers in the various sectors of the hospitality and tourism industry. Formulation of research problems, statement of hypotheses, variables and level of measurements, research designs, data collection techniques, sampling, data processing, and information analysis.

**College**
Rosen College of Hospitality Management

**Department**
Department of Hospitality Services

**Terms of Offering**
Spring

HMG6596 - Strategic Marketing in Hospitality and Tourism

**Course Title**
Strategic Marketing in Hospitality and Tourism

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
An examination of the role of marketing strategy within the overall strategic planning process of hospitality/tourism organizations. Topics such as marketing environments, competition analysis, consumer behavior, product/service mix, differentiation, segmentation, target marketing, positioning, relationship marketing, and strategic alliances are studied and analyzed.

**College**
Rosen College of Hospitality Management

**Department**
Department of Hospitality Services

**Terms of Offering**
Every Semester
HMG6604 - Legal Environment of Events

Course Title
Legal Environment of Events

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Complete the following:
  - HMG6584 - Event Analytics (3)

Course Description
Survey of the laws and regulations relating to events such as public liability and insurance, compliance, technology and intellectual property, labor and employment.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Every Semester

HMG6608 - Hospitality/Tourism Law and Ethics Seminar

Course Title
Hospitality/Tourism Law and Ethics Seminar

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
An interactive approach to the impact of changing social values, current legislation, and case law on management of hospitality and tourism enterprises. Professional Code of Ethics as applied to the hospitality industry are discussed.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Occasional
HMG6710 - International Tourism Management

Course Title
International Tourism Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
A review and critical analysis of the issues and techniques of international tourism management with specific attention to the economic, sociocultural, and environmental impacts.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Fall

HMG6738 - Tourism Industry Analysis

Course Title
Tourism Industry Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Quantitative impact analysis of tourism as an industry in the regional/national economy along the Tourism Satellite Accounts concept.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Occasional
HMG6756 - Mega-Events

**Course Title**
Mega-Events

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- HMG 6797.

**Course Description**
The organization and administration of mega-events. The tourism impacts of the events on the destinations that host them.

**College**
Rosen College of Hospitality Management

**Department**
Department of Tourism, Events, and Attractions

**Terms of Offering**
Occasional

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HMG6757 - Advanced Theme Park and Attraction Management

**Course Title**
Advanced Theme Park and Attraction Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
The course examines and reviews the managerial and guest aspects of the theme park and attraction industry, including theming, operation, marketing, human resources, and research.

**College**
Rosen College of Hospitality Management

**Department**
Hospitality Operations Department

**Terms of Offering**
Fall
HMG6797 - Event Administration

Course Title
Event Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Examination of event management, focusing on sports and entertainment. Covers promotion, budgeting, marketing, crowd control, production, legal issues, customer service, ticketing and concessions.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Occasional

HMG6810 - Food Supply Chain Management

Course Title
Food Supply Chain Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Food supply chain management and theory, examining strategic sourcing, pricing, negotiation, distribution, technology, stakeholder relationships, and quality control related to perishable foodservice products.

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

Terms of Offering
Occasional
HMG6811 - Beverage Supply Chain Management

**Course Title**
Beverage Supply Chain Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
The examination of the alcoholic beverage supply chain in the USA, including the three-tier system, license and control models, logistics, legal and compliance issues.

**College**
Rosen College of Hospitality Management

**Department**
Department of Foodservice and Lodging Management

**Terms of Offering**
Occasional

HMG6908 - Independent Study

**Course Title**
Independent Study

**Credits Hours**
1 - 99

**College**
Rosen College of Hospitality Management

**Department**
Department of Foodservice and Lodging Management

HMG6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
Rosen College of Hospitality Management

**Department**
Department of Foodservice and Lodging Management
HMG6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

HMG6938 - ST: Food Supply Chain Management

Course Title
ST: Food Supply Chain Management

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
0

Course Description
Introduction to food supply chain management and theory, examining strategic sourcing, pricing, negotiation, distribution, technology, stakeholder relationships, and quality control related to perishable foodservice products.

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

HMG6946 - Internship

Course Title
Internship

Credits Hours
1 - 99

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management
HMG6958 - Study Abroad
Course Title
Study Abroad
Credits Hours
1 - 99
College
Rosen College of Hospitality Management
Department
Department of Foodservice and Lodging Management

HMG6971 - Treatise (Thesis OF Research Report)
Course Title
Treatise (Thesis OF Research Report)
Credits Hours
1 - 99
College
Rosen College of Hospitality Management
Department
Department of Foodservice and Lodging Management

HMG6973 - Thesis-Specialist
Course Title
Thesis-Specialist
Credits Hours
1 - 99
College
Rosen College of Hospitality Management
Department
Department of Foodservice and Lodging Management
HMG7258 - Strategies and Tactics: Lodging

Course Title
Strategies and Tactics: Lodging

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Hospitality Education track to the PhD in Education.

Course Description
Extensive review of the theoretical and empirical literature related to current strategies and operations of lodging enterprises throughout the world.

College
Rosen College of Hospitality Management

Department
Department of Foodservice and Lodging Management

Terms of Offering
Occasional

HMG7295 - Theories in Hospitality and Tourism

Course Title
Theories in Hospitality and Tourism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Doctoral standing. Theory construction in hosp, tourism and service; identification of relevant interdisciplinary paradigms in theory development; evaluation of theory and research models in social science research.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Fall
HMG7546 - Strategies and Tactics: Guest Service Management

Course Title
Strategies and Tactics: Guest Service Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Hospitality Education track to the PhD in Education.

Course Description
Comprehensive review of the theory, methods, and research findings related to the management of guest service organizations, with special emphasis on hospitality and tourism enterprises.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Occasional

HMG7587 - Foundations in Hospitality and Tourism Research

Course Title
Foundations in Hospitality and Tourism Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Ph.D. Education Hospitality Education track, C.I.

Course Description
Facilitates the introduction of hospitality and tourism research across a broad expanse of industry sectors including but not limited to attractions, events, leisure, foodservice and lodging.

College
Rosen College of Hospitality Management

Department
Department of Tourism, Events, and Attractions

Terms of Offering
Odd Fall
HMG7588 - Research Seminar in Hospitality and Tourism

Course Title
Research Seminar in Hospitality and Tourism

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
Admission to the Ph.D. Education Hospitality Education track, C.I.

Course Description
This course includes the presentation of, exposure to and professional critique of current research projects by students.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Even Fall

HMG7589 - Advanced Research Methods in Hospitality and Tourism

Course Title
Advanced Research Methods in Hospitality and Tourism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
EDF 7403, EDF 7463, C.I.

Course Description
Facilitates creating, developing, and solving research problems through the application of appropriate research methods to contemporary issues in the hospitality and tourism industry.

College
Rosen College of Hospitality Management

Department
Department of Hospitality Services

Terms of Offering
Odd Fall
HMG7715 - Strategies and Tactics: Travel and Tourism  
**Course Title**  
Strategies and Tactics: Travel and Tourism  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Admission to the Hospitality Education track to the PhD in Education.  

**Course Description**  
An in-depth investigation of the various components of travel and tourism focusing on the role of policy in their operation and development.  

**College**  
Rosen College of Hospitality Management  

**Department**  
Department of Tourism, Events, and Attractions  

**Terms of Offering**  
Occasional  

HMG7876 - Strategies and Tactics: Foodservice  
**Course Title**  
Strategies and Tactics: Foodservice  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Admission to the Hospitality Education track to the PhD in Education.  

**Course Description**  
Extensive review of the theoretical and empirical literature related to current strategies and operations of food service enterprises throughout the world.  

**College**  
Rosen College of Hospitality Management  

**Department**  
Department of Foodservice and Lodging Management  

**Terms of Offering**  
Occasional
HMG7919 - Research
Course Title
Research
Credits Hours
1 - 99
College
Rosen College of Hospitality Management
Department
Department of Foodservice and Lodging Management

HMG7939 - Special Topics
Course Title
Special Topics
Credits Hours
1 - 99
College
Rosen College of Hospitality Management
Department
Department of Foodservice and Lodging Management
Terms of Offering
Fall

HMG7980 - Dissertation
Course Title
Dissertation
Credits Hours
1 - 99
College
Rosen College of Hospitality Management
Department
Department of Foodservice and Lodging Management

HSA - Health Services Administration
HSA5177 - Foundations of Health Care Finance

Course Title
Foundations of Health Care Finance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to graduate program in HSA or C.I.

Course Description
Preparatory course for graduate students who are not prepared to take the required health care finance course.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Occasional

HSA5198 - Health Care Decision Sciences and Knowledge Management

Course Title
Health Care Decision Sciences and Knowledge Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing. Emphasis on development of a general systematic approach to solving problems under uncertainty. The role of informatics and application of information technology in improving managerial decision making process will be presented.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring
HSA5436 - Foundations of Health Care Economics

Course Title
Foundations of Health Care Economics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to HSA graduate program or C.I.

Course Description
Preparatory course for graduate students who are not prepared to take the required health care economics course.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Fall

HSA5504 - Health Care Risk Management II

Course Title
Health Care Risk Management II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
HSA 5509. The Health Care Risk Management course is comprised of a total of 12 modules addressing key areas of the field. Health Care Risk Management I covers Modules 1-6 and Health Care Risk Management II covers Modules 7-12. Students must complete both courses in sequential order in order to apply for Risk Management licensure.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Every Semester
HSA5509 - Health Care Risk Management I

Course Title
Health Care Risk Management I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to M.S. in Health Services Administration or C.I.

Course Description
Examines background, history and philosophy of health care risk management. The Health Care Risk Management course is comprised of a total of 12 modules addressing key areas of the field. Health Care Risk Management I covers Modules 1-6 and Health Care Risk Management II covers Modules 7-12. Students must complete both courses in sequential order in order to apply for Risk Management licensure.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Every Semester

HSA5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

HSA5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics
HSA6108 - Health Care Organization and Management II  
**Course Title**  
Health Care Organization and Management II  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- HSA 6119, HSC 6636 and PHC 6160.  
**Course Description**  
Emphasis on planning, development, marketing approaches, and problem solving using computer methods.  
**College**  
College of Community Innovation and Education  
**Department**  
School of Global Health Management and Informatics  
**Terms of Offering**  
Spring  
Fall

HSA6112 - International Health Systems  
**Course Title**  
International Health Systems  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Graduate status.  
**Course Description**  
Survey of health care systems in developed and developing countries.  
**College**  
College of Community Innovation and Education  
**Department**  
School of Global Health Management and Informatics  
**Terms of Offering**  
Occasional
HSA6119 - Health Care Organization and Management

Course Title
Health Care Organization and Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Services Administration master's program.

Course Description
Planning, development, and marketing methods.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring

HSA6128 - Health Care Services Management

Course Title
Health Care Services Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Health Services Administration graduate program or C.I.

Course Description
Broad perspective on conceptualization and development of marketing and customer service in health care organizations focusing on links between theory and practical applications. State-of-the-art methods from best customer service organizations will be reviewed along with impact of social media and mobile technologies on marketing.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring
HSA6155 - Health Economics and Policy

Course Title
Health Economics and Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- HSA 5436 or passing grade on Economic Assessment Exam or C.I.

Course Description
Examines how the interests and interactions of patients, providers, insurers, the government, and others impact the allocation and distribution of health care.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring

HSA6156 - Health Care Economics and Policy

Course Title
Health Care Economics and Policy

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S., Executive Health Services Administration track.

Course Description
Study of the economic foundations of the health care market and policy.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Fall
HSA6175 - Advanced Trends in Health Care Finance and Management

Course Title
Advanced Trends in Health Care Finance and Management

Credits Hours
4

Lab/Studio/Field Work Hours
1

Course Description
Admission to the Health Care Informatics master's degree or HIA certificate. Focus on areas related to overall strategy of the health care organization including decision making practices; infrastructure investment; business partnerships; management staff competencies; and financial report analysis.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Summer

HSA6178 - Financial Management for Health Care Managers

Course Title
Financial Management for Health Care Managers

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S., Executive Health Services Administration track; HSA 6179.

Course Description
Application and integration of advanced accounting and financial principles to develop solutions to specific problems encountered in today's health care organizations.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Summer
HSA6179 - Financial Accounting for Health Care Managers

Course Title
Financial Accounting for Health Care Managers

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S., Executive Health Services Administration track.

Course Description
Examines accounting and financial management concepts, along with managerial protocols and regulatory constraints affecting health care organizations.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring

HSA6188 - Health Care Capstone and Strategic Management

Course Title
Health Care Capstone and Strategic Management

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S., Executive Health Services Administration track.

Course Description
Concepts and course work through the lens of strategic management.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Odd Summer
HSA6189 - Health Care Procedural Coding and Reimbursement

Course Title
Health Care Procedural Coding and Reimbursement

Credits Hours
4

Lab/Studio/Field Work Hours
1

Course Description
Admission to Health Care Informatics master's degree or HIA certificate. Introduction and analysis of reimbursement systems. Focus on Current Procedural Terminology (CPT) code selection and audit tools; reimbursement methodologies; and revenue cycle management.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring

HSA6195 - Management and Health Information Systems

Course Title
Management and Health Information Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Services Administration graduate program or C.I.

Course Description
This course is designed to introduce students to health care information systems and current issues related to effective management of these systems and health data. Specifically, students will gain insight into clinical information systems, their implementation, and the overall importance of aligning these systems with organizational goals.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring
HSA6197C - Health Care Informatics for Health Care Leaders

**Course Title**
Health Care Informatics for Health Care Leaders

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission to Health Sciences M.S., Executive Health Services Administration track.

**Course Description**
Alignment of health information technology advances with the organizational strategy, including improving quality, safety and efficiency.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Fall

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HSA6342 - Health Care Human Resources

**Course Title**
Health Care Human Resources

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Health Services Administration graduate program or C.I.

**Course Description**
Study of health care organizations, including modern management, human performances, and leadership.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Fall
HSA6345 - Leadership for Health Care Executives

Course Title
Leadership for Health Care Executives

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S., Executive Health Services Administration track.

Course Description
Addresses current leadership theory focusing on leadership styles, motivation, change management, innovation, and creativity as they relate to management of health services organizations.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Fall

HSA6346 - Health Care Organizational Behavior and Human Resource Management

Course Title
Health Care Organizational Behavior and Human Resource Management

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S., Executive Health Services Administration track.

Course Description
Application of human resources and organizational theory in the health care setting for health care managers.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Odd Spring
HSA6385 - Health Care Quality Management

Course Title
Health Care Quality Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Health Services Administration graduate program or C.I.

Course Description
Mechanisms of enhancing quality of service and care.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Summer

HSA6505 - Health Care Quality and Risk Management

Course Title
Health Care Quality and Risk Management

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S., Executive Health Services Administration track.

Course Description
Current quality-based management practices within health care organizations and effective risk management strategies for health care managers.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Summer
HSA6512 - Health Care Leadership

Course Title
Health Care Leadership

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or C.I.

Course Description
Practical applications of leadership theory in health services organizations.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Occasional

HSA6520 - Epidemiology and Health Planning

Course Title
Epidemiology and Health Planning

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S., Executive Health Services Administration track.

Course Description
Descriptive and applied methods of managerial epidemiology, including methods for data retrieval and research application.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Odd Spring
HSA6536 - Health and Medical Terminology for Health Administrators

Course Title
Health and Medical Terminology for Health Administrators

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Services Administration graduate program or C.I.

Course Description
Designed to introduce students to the language of medicine and its application for health administrators using the Caduceus Medical Terminology software system.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring

HSA6555 - Health Care Ethics and Law

Course Title
Health Care Ethics and Law

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S., Executive Health Services Administration track.

Course Description
Overview of legal and ethical issues facing health care managers and providers in a variety of health care settings.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Odd Spring
HSA6752 - Health Care Analytics
Course Title
Health Care Analytics
Credits Hours
4
Lab/Studio/Field Work Hours
1
Prerequisites
- Admission to Health Care Informatics master's degree or HIA certificate.
Course Description
Computer based course focusing on analyzing health care data including using data for decision making, process improvements, efficient health care delivery and preparing reports for other managers.
College
College of Community Innovation and Education
Department
School of Global Health Management and Informatics
Terms of Offering
Spring

HSA6759 - Health Care Outcomes Management
Course Title
Health Care Outcomes Management
Credits Hours
4
Lab/Studio/Field Work Hours
1
Course Description
Admission to Health Care Informatics master's degree or HIA certificate. Measure and methods of outcomes assessment and evaluation focusing on regulatory policies; use of data to investigate fraud; organizational compliance programs and health information system compliance.
College
College of Community Innovation and Education
Department
School of Global Health Management and Informatics
Terms of Offering
Fall
HSA6766 - Health Care Statistics and Research

**Course Title**
Health Care Statistics and Research

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Health Sciences M.S., Executive Health Services Administration track.

**Course Description**
Research method techniques and statistical techniques for problem-solving and decision-making including theoretical, quantitative, and quantitative skills to understand, conduct, and evaluate health care research.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Fall

HSA6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

HSA6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
0 - 99

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics
HSA6925 - Capstone in HSA

**Course Title**
Capstone in HSA

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- HSA 5198, HSA 6108, HSA 6119, HSA 6128, HSA 6342, HSA 6385, HSC 6911, PHC 6164.

**Course Description**
Case analysis approach to solving current health services administration problems and issues. Prepares students for comprehensive examination experience.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Spring
Fall

HSA6930 - Health Care Management, Professional Skills Seminar

**Course Title**
Health Care Management, Professional Skills Seminar

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the HSA program or C.I.

**Course Description**
This seminar serves as a bridge between MSHSA course work and the world of practice, with a focus on developing career planning and professional skills.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Spring
HSA6938 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

HSA6949 - Cooperative Education in Health Services Administration

Course Title
Cooperative Education in Health Services Administration

Credits Hours
0 - 99

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

HSA7116 - Theories in Healthcare Management

Course Title
Theories in Healthcare Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs PhD program or C.I.

Course Description
Overview of healthcare management theories/applications including resource dependence, populations ecology, institutional structure and innovation, network, transaction costs, decision making, power and stakeholder management theories.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring
HSA7125 - Globalization and Health

Course Title
Globalization and Health

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Public Affairs Ph.D. program or C.I. This course examines effects of globalization on health. A large focus is public health and social determinants of health, including poverty, inequality, environment and culture.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Spring

HSA7930 - Special Issues in Health Services Administration

Course Title
Special Issues in Health Services Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Ph.D. program or C.I.

Course Description
Selected problems in health services administration. May be repeated for credit only when course content is different.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Occasional
HSA7936 - Advanced Seminar in Health Economics

**Course Title**
Advanced Seminar in Health Economics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Public Affairs Ph.D. program or C.I. and Microeconomics or PAF 7315

**Course Description**
This advanced seminar in health economics will introduce advanced principles and methods used in economic analysis of health services.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Odd Fall

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HSA7938 - Advanced Seminar in Health Services Research

**Course Title**
Advanced Seminar in Health Services Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Public Affairs Ph.D. program or C.I.

**Course Description**
This is an advanced seminar in health services research. Analytical design and methods used in health services research will be applied.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Odd Spring
HSA7939 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

HSC - Health Science

HSC5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
Department of Health Sciences

HSC5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Health Professions and Sciences

Department
Department of Health Sciences
HSC6570 - Clinical Nutrition

**Course Title**
Clinical Nutrition

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Health Sciences MS or C.I.

**Course Description**
Advanced study of the biochemical, physiological and anatomical changes associated with diseases/conditions/surgeries that require nutrition support/medical nutrition therapy.

**College**
College of Health Professions and Sciences

**Department**
Department of Health Sciences

**Terms of Offering**
Fall

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HSC6597 - Human and Applied Metabolism

**Course Title**
Human and Applied Metabolism

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Health Sciences M.S. Clinical and Lifestyle Sciences track or C.I.

**Course Description**
The contribution of carbohydrate, fat and protein to energy metabolism at rest and during physical stress will be examined.

**College**
College of Health Professions and Sciences

**Department**
Department of Health Sciences

**Terms of Offering**
Fall

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2021-2022 Graduate Catalog
HSC6607 - Lifestyle Medicine

Course Title
Lifestyle Medicine

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences MS or C.I.

Course Description
Examination and application of evidence-based practices focusing on modifiable behaviors associated with prevention and treatment of common chronic diseases and conditions.

College
College of Health Professions and Sciences

Department
Department of Health Sciences

Terms of Offering
Spring

HSC6616 - Clinical Exercise Physiology

Course Title
Clinical Exercise Physiology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S. Clinical and Lifestyle Sciences track or C.I.

Course Description
This course is designed to give the student an understanding of the graded exercise test as a functional and diagnostic modality in normal and diseased people.

College
College of Health Professions and Sciences

Department
Department of Health Sciences

Terms of Offering
Spring
HSC6636 - Issues and Trends in the Health Professions

Course Title
Issues and Trends in the Health Professions

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Exploration of current status, issues, problems, and future trends in the practice and education of health professions.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Every Semester

HSC6656 - Healthcare Ethics

Course Title
Healthcare Ethics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Examine and analyze central concepts and values in healthcare ethics in order to provide a foundation for sound ethical decision-making.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics
HSC6659 - Issues in Geriatric Health Care

Course Title
Issues in Geriatric Health Care

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Health Sciences MS or C.I.

Course Description
Emphasizes an evidence-based, interprofessional approach to examining and working through issues associated with aging and the impact of collaborative, interprofessional care for our aging population.

College
College of Health Professions and Sciences

Department
Department of Health Sciences

Terms of Offering
Occasional

HSC6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
Department of Health Sciences
HSC6911 - Scientific Inquiry in the Health Profession

**Course Title**
Scientific Inquiry in the Health Profession

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing

**Course Description**
Research design and statistical evaluation in health professions.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Fall

HSC6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Health Professions and Sciences

**Department**
Department of Health Sciences

HSC6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Health Professions and Sciences

**Department**
Department of Health Sciences
HSC6949 - Cooperative Education in Health Science

Course Title
Cooperative Education in Health Science

Credits Hours
0 - 99

College
College of Health Professions and Sciences

Department
Department of Health Sciences

HSC7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

HSC7939 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

HUM - Humanities
HUM5396 - Place and Space  
**Course Title**  
Place and Space  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Course Description**  
Graduate standing or C.I. Study of theoretical and applied issues of place and space.  

**College**  
College of Arts and Humanities  

**Department**  
Department of Philosophy  

**Terms of Offering**  
Occasional  

HUM5917 - Directed Research  
**Course Title**  
Directed Research  

**Credits Hours**  
1 - 99  

**College**  
College of Arts and Humanities  

**Department**  
Department of Philosophy  

HUM5937 - Special Topics  
**Course Title**  
Special Topics  

**Credits Hours**  
3  

**College**  
College of Arts and Humanities  

**Department**  
Department of Philosophy  

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HUN - Human Nutrition
HUN5247 - Principles of Human Nutrition

Course Title
Principles of Human Nutrition

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S. Clinical and Lifestyle Sciences track or C.I.

Course Description
Course promotes in-depth understanding of the role of macronutrients in human nutrition and health enabling graduates to integrate knowledge into other aspects of their work.

College
College of Health Professions and Sciences

Department
Department of Health Sciences

Terms of Offering
Occasional

HUN5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Nursing

Department
Department of Nursing

HUN6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Nursing

Department
Department of Nursing
HUN6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Nursing

Department
Department of Nursing

HUN6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Nursing

Department
Department of Nursing

IDC - Interdisciplinary Computing

IDC5602 - Cybersecurity: A Multidisciplinary Approach

Course Title
Cybersecurity: A Multidisciplinary Approach

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Interdisciplinary MandS fundamentals as applied to cybersecurity including operating system installation and administration for hardware, network architectures, configurations, behavioral aspects, organizational continuity planning, security management.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Fall
IDC6600 - Emerging Cyber Issues

Course Title
Emerging Cyber Issues

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Interdisciplinary discussion of emerging issues with expert speakers from industry. Preparation of topic and required resources to complete a multi-disciplinary Modeling and Simulation capstone project.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Summer

IDC6601 - Behavioral Aspects of Cybersecurity

Course Title
Behavioral Aspects of Cybersecurity

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- IDS 5602 or C.I.

Course Description
Interdisciplinary human, social, and behavioral issues related to cybersecurity. Management techniques, motives for cyber crimes, risk and threat analysis, ethics, and legal issues.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Summer
IDC6602 - Usable Cybersecurity and Privacy

Course Title
Usable Cybersecurity and Privacy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Introduces usability problems in security and privacy, and surveys state-of-the-art techniques and evaluation methodologies to design usable security and privacy systems.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Spring

IDC6700 - Interdisciplinary Approach to Data Visualization

Course Title
Interdisciplinary Approach to Data Visualization

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
ESI 5219, STA 5206, or DIG 5876 or C.I. A hands-on, interdisciplinary perspective on basic principles and fundamentals of visualizing statistical information. Topics include: effective visualizations, perception, representation, and general principles.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Spring
IDC6941 - Capstone in Modeling and Simulation of Behavioral Cybersecurity

**Course Title**
Capstone in Modeling and Simulation of Behavioral Cybersecurity

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- IDC 6601 and CNT 5410L

**Course Description**
Interdisciplinary teams of students apply modeling and simulation, cybersecurity, and psychology techniques to the analysis and prevention of emerging cybersecurity threats.

**College**
College of Graduate Studies

**Department**
School of Modeling, Simulation, and Training

**Terms of Offering**
Fall

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**IDS - Interdisciplinary Studies**

**IDS5127 - Foundation of Bio-Imaging Science**

**Course Title**
Foundation of Bio-Imaging Science

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Fundamental theory, design, and practice of modern bio-imaging techniques used for basic biomedical research applications.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences
IDS5142 - Modeling and Simulation for Instructional Design

Course Title
Modeling and Simulation for Instructional Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Interdisciplinary aspects of MandS applications for instructional design. Emphasis on domains such as aviation, space, military, healthcare, education, hospitality, entertainment, and cybersecurity.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Summer

IDS5741 - Modeling Neuronal Systems

Course Title
Modeling Neuronal Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Brain-inspired artificial intelligence. Study in cognitive computational neuroscience, deep learning, and how the fields are ripe for convergence.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Occasional
**IDS6126 - Interdisciplinarity**

**Course Title**
Interdisciplinarity

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
This course examines the history and challenges of interdisciplinary teaching and scholarship. We start by posing the question, "What is a discipline?" Then we will explore various interdisciplinary approaches and scholarship. Our final goal is for each student to present an interdisciplinary research proposal that will guide their work on their Interdisciplinary Studies MA or MS thesis.

**College**
College of Graduate Studies

**Department**
College of Graduate Studies Dean's Office

**Terms of Offering**
Spring
Fall

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**IDS6145 - Simulation Techniques**

**Course Title**
Simulation Techniques

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- DIG 5876 or ESI 5219 or STA 5205 or C.I.

**Course Description**
Foundations, examples, hands-on tools to implement solutions to various problems using three different categories of simulation: discrete event simulation, continuous simulation, and agent-based simulation.

**College**
College of Graduate Studies

**Department**
School of Modeling, Simulation, and Training

**Terms of Offering**
Spring
IDS6146 - Modeling and Simulation Systems

Course Title
Modeling and Simulation Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
An overview of issues, techniques and tools that impact the design, development, verification, and validation of simulation systems.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Summer

IDS6147 - Perspectives on Modeling and Simulation

Course Title
Perspectives on Modeling and Simulation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Perspectives on the theory and practice of modeling and simulation with emphasis on specific topics of current interest.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Fall
IDS6148 - Human Systems Integration for Modeling and Simulation

Course Title
Human Systems Integration for Modeling and Simulation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Covers general process of the human systems integration approach for modeling and simulation systems. Addresses standards, analysis tools and techniques for developing systems-level solutions.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Summer

IDS6149 - Modeling and Simulation for Test and Evaluation

Course Title
Modeling and Simulation for Test and Evaluation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and C.I.

Course Description
Modeling and simulation for test planning, execution, and evaluation will be described, characterized, and illustrated with real-world examples and case studies.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Fall
IDS6209 - Introduction to Electrochemical Energy Conversion and Storage

Course Title
Introduction to Electrochemical Energy Conversion and Storage

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the PSM or MS in Nanotechnology or C.I.

Course Description
Topics in nanotechnology, materials science and electrochemistry concerning renewable energy generation and storage. Electrochemical systems and their applications in renewable energy generation and storage.

College
College of Graduate Studies

Department
NanoScience Technology Center

Terms of Offering
Fall

IDS6250 - Introduction to Nanoscience and Nanotechnology

Course Title
Introduction to Nanoscience and Nanotechnology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Professional Science Master's in Nanotechnology or C.I.

Course Description
A general overview of nanomaterials and nanodevices, including their synthesis, new properties and applications.

College
College of Graduate Studies

Department
NanoScience Technology Center

Terms of Offering
Fall
IDS6251 - Computation, Simulation and Modeling in Nanotechnology

**Course Title**
Computation, Simulation and Modeling in Nanotechnology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Professional Science Master's in Nanotechnology and background in chemistry and computer science, or C.I.

**Course Description**
Modeling methods and computational approaches applicable to nanotechnology problems.

**College**
College of Graduate Studies

**Department**
NanoScience Technology Center

**Terms of Offering**
Spring

IDS6252 - Biomedical Nanotechnology

**Course Title**
Biomedical Nanotechnology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Professional Science Master's in Nanotechnology and IDS 6250, UG General and Organic Chemistry, or C.I.

**Course Description**
Synthesis and properties of nanomaterials related to biomedical applications, nanotechnology for in vitro and in vivo diagnostics, and therapeutics.

**College**
College of Graduate Studies

**Department**
NanoScience Technology Center

**Terms of Offering**
Spring
IDS6253 - Bioanalytical Technology

**Course Title**
Bioanalytical Technology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Professional Science Master's in Nanotechnology and IDS 6250, or C.I.

**Course Description**
Analytical technologies and products for biomolecular detection and analysis, nanotechnology-based medical diagnostics.

**College**
College of Graduate Studies

**Department**
NanoScience Technology Center

**Terms of Offering**
Fall

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IDS6254 - Nanofabrication and Characterization

**Course Title**
Nanofabrication and Characterization

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Admission to the Professional Science Master's in Nanotechnology and IDS 6250, or C.I. Techniques for fabrication and characterization of nanoscale materials, nanoelectronics and devices.

**College**
College of Graduate Studies

**Department**
NanoScience Technology Center

**Terms of Offering**
Spring

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2021-2022 Graduate Catalog
IDS6255 - Nanotechnology in Energy and Sustainability

Course Title
Nanotechnology in Energy and Sustainability

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Professional Science Master's in Nanotechnology or C.I.

Course Description
Energy generation and storage, sustainability of materials and device fabrication and deployment, application of nanotechnology in improving the device efficiency in energy generation and storage.

College
College of Graduate Studies

Department
NanoScience Technology Center

Terms of Offering
Fall

IDS6256 - Principles of Nanostructure Quantum Well, Wires, and Dots

Course Title
Principles of Nanostructure Quantum Well, Wires, and Dots

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the PSM or MS in Nanotechnology and Intro Nanosci Nanotech, or C.I.

Course Description
Introduction to low dimensional semiconductor devices based on quantum wells, dots and wires; approximate and numerical device modeling.

College
College of Graduate Studies

Department
NanoScience Technology Center

Terms of Offering
Spring
IDS6257 - Principles and Techniques of Nanobiology

Course Title
Principles and Techniques of Nanobiology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to the Nanotechnology PSM or MS program, or C.I. This course aims to integrate multi-disciplinary approaches covering physics, biology, and nanoscience to understand how living system works at the nanoscale.

College
College of Graduate Studies

Department
NanoScience Technology Center

Terms of Offering
Spring

IDS6258 - Advanced Materials and Nanotechnology for Rechargeable Batteries

Course Title
Advanced Materials and Nanotechnology for Rechargeable Batteries

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the PSM in Nanotechnology and IDS 6250, or C.I.

Course Description
Build a bridge between nanomaterials and electrochemical energy storage performance and demonstrate renewable energy storage on the nanoscale.

College
College of Graduate Studies

Department
NanoScience Technology Center

Terms of Offering
Spring
IDS6259 - Advanced Energy-Efficient Nanoelectronic Devices

Course Title
Advanced Energy-Efficient Nanoelectronic Devices

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the PSM or MS in Nanotechnology or C.I.

Course Description
Discusses low power nanoelectronic devices that can meet the need of future electronics by using novel physical mechanisms of current conduction.

College
College of Graduate Studies

Department
NanoScience Technology Center

IDS6260 - Electrical and Optical Properties of Nanoscale Materials and Devices

Course Title
Electrical and Optical Properties of Nanoscale Materials and Devices

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- IDS 6250 or C.I.

Course Description
Multiple topics on electrical and optical properties of nanoscale materials and devices, including size-dependent change in material properties, structural understanding by atomic-to-nanoscale characterizations, fabrication of nanoscale devices and their electrical properties, luminescent properties and applications.

College
College of Graduate Studies

Department
NanoScience Technology Center

Terms of Offering
Spring
IDS6261 - Nanotechnology for Sustainable Agriculture  
**Course Title**  
Nanotechnology for Sustainable Agriculture  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Admission to the PSM or MS in Nanotechnology or C.I.  
**Course Description**  
Prepares a new generation of STEM students who are equipped with necessary knowledge to adapt sustainable agricultural practices.  
**College**  
College of Graduate Studies  
**Department**  
NanoScience Technology Center  
**Terms of Offering**  
Fall

IDS6262 - Research Design for Modeling and Simulation  
**Course Title**  
Research Design for Modeling and Simulation  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- IDS 6XXX Simulation Techniques.  
**Course Description**  
Theoretical and practical aspects of interdisciplinary research methodologies as they relate to human-centered Modeling and Simulation.  
**College**  
College of Graduate Studies  
**Department**  
School of Modeling, Simulation, and Training  
**Terms of Offering**  
Fall
IDS6264 - Biointerfaces Enabled by Micro/NanoFabrication

Course Title
Biointerfaces Enabled by Micro/NanoFabrication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the PSM or MS in Nanotechnology or C.I.

Course Description
Introduces students to the interfaces and devices in the biotechnology and biomedical arenas that are enabled by Micro/NanoFabrication.

College
College of Graduate Studies

Department
NanoScience Technology Center

Terms of Offering
Spring

IDS6265 - Luminescent Materials and Devices

Course Title
Luminescent Materials and Devices

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- IDS 6250 or upon instructor approval.

Course Description
Fundamental and applied topics of luminescent materials and devices: Luminescent Processes; Phosphors; Scintillators; Organic Emitters; Compound Semiconductors; Quantum dots; Photoluminescence; Cathodoluminescence; Electroluminescence; Various Applications.

College
College of Graduate Studies

Department
NanoScience Technology Center

Terms of Offering
Fall
IDS6267 - Understanding Humans for Modeling and Simulation

Course Title
Understanding Humans for Modeling and Simulation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Human cognition, the human perceptual system, ergonomics, and how humans and computing systems can connect through the process of user-centered design and analysis.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Spring

IDS6308 - Ways of Knowing

Course Title
Ways of Knowing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Theoretical models of knowledge as exemplified by various disciplines and interdisciplinary activity. Focus on epistemological issues raised in past and present works.

College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Terms of Offering
Even Spring
IDS6351 - Critical Thinking and Writing

Course Title
Critical Thinking and Writing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
IDS 6308 and IDS 6669.

Course Description
Focus on refining critical understanding of interdisciplinary research and organization and presentation of interdisciplinary ideas, building on first two core courses.

College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Terms of Offering
Fall

IDS6503 - International Trends in Instructional Systems

Course Title
International Trends in Instructional Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
EME 6613.

Course Description
International and multicultural issues and how they affect the global impact of technology in education, training, and quality management.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Summer
IDS6504 - Adult Learning

**Course Title**
Adult Learning

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
An examination of theory and research on adult learning with emphasis on practical applications, instruction, and technology use in educational and workplace settings.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Fall

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IDS6513 - Preparing Tomorrow's Faculty

**Course Title**
Preparing Tomorrow's Faculty

**Credits Hours**
0

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Active graduate student standing

**Course Description**
Preparing Future Faculty introduces the foundations of teaching in higher education, student learning, course design, teaching pedagogies, assessment and feedback, classroom management, and career development.

**College**
College of Graduate Studies

**Department**
College of Graduate Studies Dean's Office

**Terms of Offering**
Every Semester
IDS6515 - Classroom Management for Mathematics and Science Teachers

**Course Title**
Classroom Management for Mathematics and Science Teachers

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Teacher candidates will engage in critical examination of current school and classroom organization and management models, methods, and strategies in middle school. Causes and solutions to disruptive and noncompliant behaviors will be discussed.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Even Fall

IDS6516 - Leadership Development for Mathematics and Science Teachers

**Course Title**
Leadership Development for Mathematics and Science Teachers

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Development of mathematics and science teachers' abilities to assume teacher leadership roles in their schools.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Even Spring
IDS6606 - Approaches to Network Analysis and Applications

**Course Title**
Approaches to Network Analysis and Applications

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate Standing or C.I.

**Course Description**
This course is co-organized between social and computer scientists. It covers basic network concepts, best practices in collecting and analyzing network data and interdisciplinary/multidisciplinary applications.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Fall

IDS6657 - Professional Collaboration in Language and Literacy

**Course Title**
Professional Collaboration in Language and Literacy

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Interdisciplinary approach to exploring issues in language and literacy for struggling children and adolescents and development of collaboration competencies for professionals from different disciplines.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Summer
IDS6669 - Interdisciplinary Approaches to Research

Course Title
Interdisciplinary Approaches to Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- IDS 6308 or C.I.

Course Description
Explores methods/assumptions/challenges experienced in interdisciplinary research; includes practice integrating discipline-based research methods with reflexive/dialogic methods; helps prepare students for capstone project or thesis.

College
College of Graduate Studies

Department
College of Graduate Studies Dean's Office

Terms of Offering
Spring

IDS6694 - Experimental Design and Analysis in Biomedical Sciences

Course Title
Experimental Design and Analysis in Biomedical Sciences

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in biomedical sciences or C.I.

Course Description
Problem based learning graduate course focused on how to effectively design experiments and analyze data for hypothesis-driven research in biomedical sciences.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Spring
IDS6740 - Nonlinear Dynamics in the Cognitive and Behavioral Sciences

Course Title
Nonlinear Dynamics in the Cognitive and Behavioral Sciences

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Theoretical and practical aspects of research applying nonlinear dynamical systems methodologies as they relate to human-centered Modeling and Simulation.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Spring

IDS6908 - Directed Independent Studies

Course Title
Directed Independent Studies

Credits Hours
3

Prerequisites
- Instructor Consent Required

Terms of Offering
Occasional
IDS6910 - Research in Mathematics and Science Education

Course Title
Research in Mathematics and Science Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Support provided for graduate students in mathematics and science education as they plan and/or implement research projects.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall

IDS6916 - Simulation Research Methods and Practicum

Course Title
Simulation Research Methods and Practicum

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- DIG 5875C and DIG 5876 or their equivalents.

Course Description
Interdisciplinary teams of students conduct fundamental and applied research on contemporary issues in modeling, simulation, and training.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Occasional
IDS6933 - Seminar in Teaching Mathematics and Science

**Course Title**
Seminar in Teaching Mathematics and Science

**Credits Hours**
3 - 99

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing and valid Florida Teaching Certificate or C.I.

**Course Description**
This course is designed so that graduate students may study specific areas related to curriculum, instruction, and assessment in mathematics and science education. May be repeated for credit.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Every Semester

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IDS6937 - Teaching Mathematics and Science Using Reform-Based Practices

**Course Title**
Teaching Mathematics and Science Using Reform-Based Practices

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing and valid Florida Teaching Certificate or C.I.

**Course Description**
Focuses on the work of Dewey and Piaget as it applies to mathematics and science teaching. Emphasizes integrating math and science teaching.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Fall
IDS6938ST1 - Hardware Prototyping for Modeling and Simulation

Course Title
Hardware Prototyping for Modeling and Simulation

Credits Hours
3

Course Description
Introduction to 3D design and printing, microcontroller programming, and circuit board construction. Additionally, IoT and MQTT protocols to manage data, and IP protection topics.

IDS6938ST2 - Stereoscopy for Art and Science Using 3D Applications

Course Title
Stereoscopy for Art and Science Using 3D Applications

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Hands-on use of large 3D applications, such as MAYA and NUKE, to explore how stereoscopic 3D (S3D) can further enhance engineering-related problems and scientific query. Additionally, the emerging field of stereoscopic art is addressed.

IDS6938ST3 - ST: Interdisciplinary Approaches to Research

Course Title
ST: Interdisciplinary Approaches to Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Explores methods/assumptions/challenges experienced in interdisciplinary research. Includes practice integrating discipline-based research methods with reflexive/dialogic methods; helps prepare students for capstone project or thesis.

IDS6938ST4 - ST: Usable Security & Privacy

Course Title
ST: Usable Security & Privacy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Introduces usability problems in security and privacy methods, tools, and software and overviews prominent examples of both failures and successes in usable security and privacy.
IDS6938ST5 - ST: Nonlinear Dynamics in the Cognitive and Behavioral Sciences

Course Title
ST: Nonlinear Dynamics in the Cognitive and Behavioral Sciences

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Theoretical and practical aspects of research applying nonlinear dynamical systems methodologies as they relate to human-centered Modeling and Simulation.

IDS6939 - Reforming Curriculum in Mathematics and Science Education

Course Title
Reforming Curriculum in Mathematics and Science Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and valid Florida Teaching Certificate or C.I. Emphasizes the reform movement including technology, history of curriculum, curriculum theory, and standards documents.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall
IDS6950 - Modeling and Simulation Capstone Report Planning

Course Title
Modeling and Simulation Capstone Report Planning

Credits Hours
1

Lab/Studio/Field Work Hours
1

Prerequisites
Graduate standing.

Course Description
Identify topic and required resources to complete multi-disciplinary Modeling and Simulation capstone project. Develop annotated topical outline for Modeling and Simulation capstone report.

College
College of Graduate Studies

Department
School of Modeling, Simulation, and Training

Terms of Offering
Summer

IDS6953 - Urban and Regional Planning Capstone I

Course Title
Urban and Regional Planning Capstone I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Completion of all required Urban and Regional Planning program core courses and concentration electives or consent of Program Director.

Course Description
This Capstone I course synthesizes previous planning coursework through the development of a service learning project proposal.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Even Fall
**IDS6954 - Urban and Regional Planning Capstone II**

**Course Title**
Urban and Regional Planning Capstone II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Completion of IDS 6953 - Urban and Regional Planning Capstone I. This Capstone II course implements the service learning project proposal where students collect and analyze data and make planning recommendations.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Odd Spring

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**IDS6971 - Thesis Research**

**Course Title**
Thesis Research

**Credits Hours**
3

**Prerequisites**
- Department Consent Required

**College**

**Terms of Offering**
Occasional
IDS7500 - Seminar in Educational Research

**Course Title**
Seminar in Educational Research

**Credits Hours**
1 - 99

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission into doctoral program in Education or C.I.

**Course Description**
An examination of education related research initiatives. May be repeated for credit.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Every Semester

IDS7501 - Issues and Research in Education

**Course Title**
Issues and Research in Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to PhD in Education or C.I.

**Course Description**
An examination of major issues impacting education and related practical and methodological issues in research.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Odd Fall
IDS7502 - Case Studies in Research Design

**Course Title**
Case Studies in Research Design

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission into the PhD in Education.

**Course Description**
A critical analysis of educational research design.

**College**
College of Community Innovation and Education

**Department**
Learning Sciences & Educational Research

**Terms of Offering**
Summer

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IDS7657 - Professional Collaboration Around Language Issues

**Course Title**
Professional Collaboration Around Language Issues

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Education Ph.D. program or C.I.

**Course Description**
Interdisciplinary approach to exploring issues in language and literacy for struggling children and adolescents and development of collaboration competencies in professionals from different disciplines.

**College**
College of Community Innovation and Education

**Department**
College of Community Innovation and Education Dean's Office

**Terms of Offering**
Odd Fall
IDS7690 - Frontiers in Biomedical Sciences

Course Title
Frontiers in Biomedical Sciences

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Biomedical Sciences Ph.D. program.

Course Description
Cross-disciplinary biomolecular research seminar, collaboration between chemistry, biology, and molecular biology and microbiology. May be used in the degree program a maximum of 6 times.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Spring
Fall

IDS7692L - Experiments in Biomedical Sciences

Course Title
Experiments in Biomedical Sciences

Credits Hours
1 - 3

Lab/Studio/Field Work Hours
3-Jan

Prerequisites
- Admission to Biomedical Sciences Ph.D. program.

Course Description
Laboratory rotations in one to three research laboratories throughout the first year of the Biomedical Science doctoral program. Graded S/U. May be used in the degree program a maximum of 4 times.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Spring
Fall
IDS7938 - Research Cluster Seminar

Course Title
Research Cluster Seminar

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into the PhD program in Education or C.I.

Course Description
An examination of research issues focusing on interdisciplinary inquiry in education. May be used in the degree program a maximum of 2 times.

College
College of Community Innovation and Education

Department
Learning Sciences & Educational Research

Terms of Offering
Summer
Spring

IDS7939 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education

INP - Industrial & Applied Psychology

INP5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Psychology

2021-2022 Graduate Catalog
INP5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Psychology

INP6005 - Overview of Research in Industrial and Organizational Psychology

Course Title
Overview of Research in Industrial and Organizational Psychology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to masters or doctoral program in Industrial/Organizational Psychology, or CI.

Course Description
Designed to familiarize graduate students with the core research topics of interest to contemporary I/O psychologists.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Fall
INP6058 - Job Analysis and Performance Appraisal

**Course Title**
Job Analysis and Performance Appraisal

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Industrial Organizational Psychology M.S. or C.I.

**Course Description**
Theory and practice in collection, analysis, and use of job analysis data; survey of theories, research and practice in the areas of industrial/organizational performance appraisal.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional

INP6072 - Survey Research Methods and Program Evaluation in Indust. and Org. Psychology

**Course Title**
Survey Research Methods and Program Evaluation in Indust. and Org. Psychology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PSY 6216C and admission to master's program in Industrial and Organizational Psychology or Ph.D. in Psychology or C.I.

**Course Description**
Applied issues in the evaluation of programs/interventions and survey design, sampling, and data analysis in organizations.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional
INP6080 - Ethical, Legal, and Professional Issues in Industrial and Organizational Psychology

Course Title
Ethical, Legal, and Professional Issues in Industrial and Organizational Psychology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to master's program in Industrial and Organizational Psychology, Psychology Ph.D., or C.I.

Course Description
A review of the applied behavioral problems recurrent in the professional practice of Industrial and Organizational Psychology.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional

INP6091 - Industrial and Organizational Psychology Consulting Practice

Course Title
Industrial and Organizational Psychology Consulting Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission into the M.S. Industrial/Organizational Psychology program. Develop consulting skills in I/O psychology by applying theories and methods to improve individual, group, and organizational effectiveness.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Fall
INP6215 - Assessment Centers and Leadership

**Course Title**
Assessment Centers and Leadership

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate admission and C.I.

**Course Description**
Survey of assessment center technology and application with emphasis on leadership theory and practice.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional

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INP6317 - Work Motivation and Job Attitudes

**Course Title**
Work Motivation and Job Attitudes

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Industrial Organizational Psychology M.S. or Ph.D., or Modeling and Simulation M.S. or Ph.D., or Applied Learning and Instruction M.A., or C.I.

**Course Description**
Review of theories, research and application of psychological principles to organizational settings, including human motivation and job attitudes.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional
INP6318 - Recruitment, Placement and Selection
Course Title
Recruitment, Placement and Selection

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
PSY 6308C and admission to Industrial and Organizational Psychology M.S., or C.I.

Course Description
Issues related to recruiting, placing, and selecting employees and an examination of currently used tests in industry.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional

INP6605 - Training and Team Performance
Course Title
Training and Team Performance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Admission to Industrial Organizational Psychology M.S., Psychology Ph.D., or C.I.

Course Description
Survey and theory of training and small groups including team effectiveness and team performance within applied contexts.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional
INP6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Psychology

INP6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Psychology

INP6933 - Seminar in Industrial and Organizational Psychology

Course Title
Seminar in Industrial and Organizational Psychology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Admission to Industrial and Organizational Psychology Master's, Psychology Ph.D., or C.I.

Course Description
Selected topics in industrial and organizational psychology. May be used in the I/O M.S. degree program one time, and may be used in I/O Ph.D. a maximum of 6 times. May be used in the Ph.D. degree program a maximum of 6 times. May be used in the degree program a maximum of 6 times.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional
INP6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Psychology

INP6945C - Industrial Psychology Practicum

Course Title
Industrial Psychology Practicum

Credits Hours
3

Lab/Studio/Field Work Hours
6

Course Description
Admission to Industrial Organizational Psychology M.S. or C.I. Supervised placement in an applied setting.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional
INP7071 - Research Methods in Industrial and Organizational Psychology

Course Title
Research Methods in Industrial and Organizational Psychology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the doctoral Industrial and Organizational Psychology program and PSY 6216C.

Course Description
A review of research methodology in organizational settings, focusing on hypothesis testing, quasi-experimental designed, non-experimental designs, and sampling procedures.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional

INP7081 - Professional Issues in Industrial and Organizational Psychology

Course Title
Professional Issues in Industrial and Organizational Psychology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in the doctoral program in Industrial Organizational Psychology or C.I.

Course Description
Ethical principles, standards, and laws guiding professional behaviors and psychological practice.

College
College of Sciences

Department
Department of Psychology
INP7089 - Human Factors Professional Issues

Course Title
Human Factors Professional Issues

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Human Factors PhD program.

Course Description
Ethical principles of psychologists, code of conduct, grant/proposal writing, publication of research, academic and applied career paths, licensing requirements, and job search/preparation.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Even Spring

INP7214 - Industrial Psychology I

Course Title
Industrial Psychology I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the doctoral Industrial and Organizational Psychology program or C.I.

Course Description
Review of the theoretical and practical issues and the research literature related to criterion development and personnel selection.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Odd Spring
INP7251 - Industrial Psychology II

Course Title
Industrial Psychology II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the doctoral Industrial and Organizational Psychology program or C.I.

Course Description
Review of the theoretical and practical issues and the research literature related to retaining, theory and program design/evaluation and performance appraisal/feedback.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional

INP7310 - Organizational Psychology I

Course Title
Organizational Psychology I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the doctoral Industrial and Organizational Psychology program. Review of the theoretical and practical issues and research literature related to work motivation theory, attitude theory, and decision theory.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Fall
INP7311 - Organizational Psychology II
Course Title
Organizational Psychology II
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to the doctoral Industrial and Organizational Psychology program or C.I.
Course Description
Review of the theoretical and practical issues and research literature related to small group theory and process and organization theory.
College
College of Sciences
Department
Department of Psychology
Terms of Offering
Occasional

INP7919 - Directed Doctoral Study in Industrial and Organization Psychology
Course Title
Directed Doctoral Study in Industrial and Organization Psychology
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to the doctoral Industrial and Organizational Psychology program.
Course Description
Directed study in areas of organization development theory, career development theory consumer behavior, individual assessment, or other relevant topics in Industrial and Organizational psychology. May be repeated for credit.
College
College of Sciences
Department
Department of Psychology
Terms of Offering
Occasional

INR - International Relations
INR5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
School of Politics, Security, and International Affairs

INR5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
School of Politics, Security, and International Affairs

INR6007 - Seminar in International Politics

Course Title
Seminar in International Politics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to a graduate degree-seeking program or C.I.

Course Description
Introduces the student to the advances in international relations theory and research through a broad sampling of approaches and methods.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
INR6039 - International Political Economy

Course Title
International Political Economy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or post bac status.

Course Description
A survey of major themes, concepts, theories, and methods of international political economy, which also entails policy discussion and applications.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

INR6062 - Peace Studies

Course Title
Peace Studies

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to degree-seeking program or C.I.

Course Description
Examines how humans manage conflict, fostering justice and creative development. Surveys both international and domestic conflicts, outlining theories of peace and utilizing various case studies.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
INR6065 - Seminar on War

Course Title
Seminar on War

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to degree-seeking program or C.I.

Course Description
Examination of theories and empirical evidence locating the cause of war at the systemic, state, and individual levels of analysis.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

INR6067 - Human Rights and Security

Course Title
Human Rights and Security

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to degree-seeking graduate program or C.I.

Course Description
Analyze international human rights and human security, including issues of human development, gender and environmental security.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
INR6068 - Politics of Civil Wars

Course Title
Politics of Civil Wars

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to degree-seeking program or C.I. Exploration of the causes, the dynamics of violence, the international aspects, and the resolution of civil wars.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

INR6108 - Seminar in American Foreign Policy

Course Title
Seminar in American Foreign Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to a graduate degree-seeking program or C.I.

Course Description
Domestic and international factors influencing the development of selected foreign policy issues.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
INR6136 - Seminar in American Security Policy

**Course Title**
Seminar in American Security Policy

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to graduate degree seeking program or C.I.

**Course Description**
Examination of domestic and international factors influencing the development of selected American security policy issues.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

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INR6137 - Terrorism and Politics

**Course Title**
Terrorism and Politics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing or C.I. Examines terrorism, including its strategic logics, contemporary methodologies, political roots, and the problems of counter-terrorism.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Occasional
INR6228 - International Politics of the Caspian Sea Region

Course Title
International Politics of the Caspian Sea Region

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Degree-seeking graduate standing or C.I.

Course Description
A comprehensive analysis of the political issues of the Caspian region.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

INR6257 - International Relations of Africa

Course Title
International Relations of Africa

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Investigates international relations in the African context, with an explicit focus on implications for international security.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
INR6275 - International Politics of the Middle East

**Course Title**
International Politics of the Middle East

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Analysis of the international relations of the Middle East both among Middle Eastern states, as well as relations with other states, especially the great powers.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Even Fall

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INR6339 - Strategic Warning Analysis

**Course Title**
Strategic Warning Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing or C.I. Explores the question of strategic warning within the context of national security with focus upon principles of analysis using examples.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Occasional
INR6346 - Politics of International Terrorism

Course Title
Politics of International Terrorism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to degree-seeking program or C.I.

Course Description
Analysis of causes of and political responses to international terrorism. Emphasis on political science approaches to analysis of international terrorism.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

INR6352 - Global Environmental Politics

Course Title
Global Environmental Politics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Political Science MA or C.I.

Course Description
Unique environmental struggles and issues on the international and global levels.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
INR6356 - Environmental Security

Course Title
Environmental Security

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to degree-seeking program or C.I.

Course Description
Examination of the relationship between environmental degradation and both national and international security, introducing students to the technical and political debates on global environmental change.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

INR6365 - Seminar on Intelligence

Course Title
Seminar on Intelligence

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to degree-seeking program or C.I.

Course Description
Examines the organization and functions of the U.S. intelligence community, its interaction with national security policymakers, and the challenges in defining its future role.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
INR6366 - The Intelligence Community

**Course Title**
The Intelligence Community

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to a graduate program, or C.I.

**Course Description**
The intelligence community structure in its relationship to foreign policy decision making, consideration of control and reliability questions, and issues of cooperation and coordination.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Occasional

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INR6507 - International Organization

**Course Title**
International Organization

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
A survey of the theories, structures, issues, and agents of international organization, focusing on the effects of regional and global governance on state behavior.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Occasional
INR6726 - Political Behavior in International Conflict

Course Title
Political Behavior in International Conflict

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Analysis of the ways in which cognitive and emotional theories of human behavior have been used to explain conflict between nation-state and other non-state actors.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

INR6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
School of Politics, Security, and International Affairs

INR6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
School of Politics, Security, and International Affairs
INR6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
School of Politics, Security, and International Affairs

INR7139 - Issues in Domestic Security

Course Title
Issues in Domestic Security

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Security Studies Ph.D. or C.I.

Course Description
Examination of national issues such as domestic terrorism, with a particular emphasis on challenges arising at the state level.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Even Fall
INR7332 - Scientific Study of Security

Course Title
Scientific Study of Security

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Security Studies Ph.D. or C.I.

Course Description
Principles of research design and evaluation of studies on domestic and international security; preparation of an empirical research paper.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Fall

INR7337 - Issues in International Security

Course Title
Issues in International Security

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Security Studies Ph.D. or C.I.

Course Description
Overview of international issues such as terrorism, genocide, nuclear proliferation, war, the spread of infectious diseases, fragile and failing states, transnational organized crime and gender.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Even Spring
INR7687 - Theoretical Approaches to Security Studies

Course Title
Theoretical Approaches to Security Studies

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Security Studies Ph.D. or C.I.

Course Description
Survey of realist, liberal, constructivist, critical and other theories of international security.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Even Fall

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ISC - Interdisciplinary Sciences

ISC5404 - Fundamentals of Discipline Based Education Research in STEM Disciplines

Course Title
Fundamentals of Discipline Based Education Research in STEM Disciplines

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing, or C.I.

Course Description
Fundamental topics and methodologies in the field of discipline based education research, focusing specifically on STEM disciplines.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Odd Fall
Even Fall
ISC6146 - Environmental Education for Educators

Course Title
Environmental Education for Educators

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- Graduate standing and a valid Florida Teaching Certificate or C.I.

Course Description
Emphasizes the importance of environmental education in the school curriculum. Includes facilitator training in national environmental education programs.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer

ISC6416 - History of Physical Science and Cultural Connections

Course Title
History of Physical Science and Cultural Connections

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, C.I.

Course Description
This course is designed for graduate students in science who wish to know something about the "who, how, why, when and where " of physics.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Spring

ISM - Information Systems Management
ISM5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Management Information Systems Department

ISM5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Business Administration

Department
Management Information Systems Department

ISM6327 - Foundations of Cybersecurity and Privacy

Course Title
Foundations of Cybersecurity and Privacy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the graduate college.

Course Description
This course will introduce foundational terminology related to information technology (IT), information systems (IS), and information security (InfoSec). Students will become familiar with IT risk and security management, data privacy, and technologies for assessing network security.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Occasional

2021-2022 Graduate Catalog
ISM6328 - Cyber Risk Assessment  
**Course Title**
Cyber Risk Assessment  
**Credits Hours**
3  
**Lab/Studio/Field Work Hours**
3  
**Prerequisites**
- ISM 6327 or equivalent as determined by instructor.  
**Course Description**
Identification of risks associated with the functioning of modern, technology-enabled organizations and systems, technical and nontechnical. Alignment of cyber risk management frameworks with business goals.  
**College**
College of Business Administration  
**Department**
Department of Management  
**Terms of Offering**
Spring

ISM6375 - Cyber Management and Leadership  
**Course Title**
Cyber Management and Leadership  
**Credits Hours**
3  
**Lab/Studio/Field Work Hours**
3  
**Prerequisites**
- ISM 6327 or equivalent as determined by instructor; and ISM 6328 Cyber Risk Assessment.  
**Course Description**
Development, implementation, maintenance, and leading of modern organizational cyber strategies, structures, and programs in alignment with organizational goals; effective responses to adverse cyber events.  
**College**
College of Business Administration  
**Department**
Department of Management  
**Terms of Offering**
Fall
ISM6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Management Information Systems Department

ISM6938ST1 - ST: Cyber Management and Leadership

Course Title
ST: Cyber Management and Leadership

Credits Hours
3

Lab/Studio/Field Work Hours
3

Course Description
Development, implementation, maintenance, and leading of modern organizational cyber strategies, structures, and programs in alignment with organizational goals; effective responses to adverse cyber events.

ISM6938ST2 - ST: Cyber Risk Management

Course Title
ST: Cyber Risk Management

Credits Hours
3

Lab/Studio/Field Work Hours
3

Course Description
Identification of risks associated with the functioning of modern, technology-enabled organizations and systems, technical and nontechnical. Alignment of cyber risk management frameworks with business goals.

JOU - Journalism

JOU5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Nicholson School of Communication and Media
JOU5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Nicholson School of Communication and Media

LAE - Language Arts & English Education

LAE5295 - Writing Workshop

Course Title
Writing Workshop

Credits Hours
1 - 3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Students will engage in exploration and practice of effective writing strategies. (May be repeated up to 3 semester hours.) May be repeated for credit.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
LAE5319 - Methods of Elementary School Language Arts

Course Title
Methods of Elementary School Language Arts

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Principles, procedures, organization and current practices in reading, writing, listening, and talking.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
Fall

LAE5337 - Literacy Strategies for Middle and Secondary Teaching

Course Title
Literacy Strategies for Middle and Secondary Teaching

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDG 6415 or C.I.

Course Description
Designed to assist teachers and graduate students in understanding the adolescent learner. This course will examine theory, strategies, research, resources and implementation options for effective middle and secondary literacy programs.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall
LAE5338 - Teaching Writing in Middle and High School

Course Title
Teaching Writing in Middle and High School

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDG 6415 or C.I.

Course Description
Techniques and methods in teaching dialects, semantics, and the various grammars within the context of writing.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall

LAE5346 - Methods of Teaching English Language Arts

Course Title
Methods of Teaching English Language Arts

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDG 6415 and TSL 5085 or CI or admission to Initial Teacher Professional Preparation certificate.

Course Description
Designed for alternative certification and Masters of Arts students to explore the strands, methods and materials related to school curriculum in teaching English.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall
LAE5369 - Literacy Strategies in a Digital Age for Middle and High School

Course Title
Literacy Strategies in a Digital Age for Middle and High School

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to graduate program or C.I.

Course Description
Designed to assist teachers in understanding and presenting information using digital literacies, technological innovations, language arts skills and multicultural models of instruction for secondary education.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
Spring

LAE5415 - Children's Literature in Elementary Education

Course Title
Children's Literature in Elementary Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Survey of children's literature: criteria for selection according to literary elements and child development needs. Methods for presenting to children; integrating literature with elementary curricula.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Summer
LAE5465 - Literature for Adolescents

Course Title
Literature for Adolescents

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Senior standing or C.I.

Course Description
Selecting and evaluating books for adolescents with emphasis on the use of literature in the development of young people.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring

LAE5495 - Assessing Writing

Course Title
Assessing Writing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Students will explore a variety of strategies for assessing students' writing including holistic scoring, primary trait scoring, and portfolio assessment.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
LAE5496 - Disciplinary Literacy in the Content Areas

Course Title
Disciplinary Literacy in the Content Areas

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing. Designed to assist in understanding the adolescent reader and writer, this course will examine theory, strategies, resources, and implementation options of disciplinary literacy specifically in the content areas (Mathematics, Science, Social Studies, and other content areas).

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
Spring

LAE5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

LAE5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
LAE6296 - Advanced Writing Workshop

Course Title
Advanced Writing Workshop

Credits Hours
1 - 3

Lab/Studio/Field Work Hours
0

Prerequisites
- LAE 5295 or C.I.

Course Description
Designed for teachers who have completed a previous writing workshop course. Includes history, theory, research, and strategies for teaching writing. (Course may be repeated up to 3 semester hours.) Course May be repeated for credit.

College
College of Community Innovation and Education

Department
School of Teacher Education

LAE6366 - Advanced Studies in Adolescent Literature

Course Title
Advanced Studies in Adolescent Literature

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- LAE 4464 or LAE 5465.

Course Description
Analysis of major works in genre, examination of criticism, instructional strategies, and research in teaching adolescent literature.

College
College of Community Innovation and Education

Department
School of Teacher Education
LAE6417 - Investigation in Children's Literature

Course Title
Investigation in Children's Literature

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- A previous survey course in children's literature.

Course Description
Learning through the utilization of children's literature, literature analysis and evaluation, storytelling, visual and reference materials.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring

LAE6616 - Trends in Language Arts Education

Course Title
Trends in Language Arts Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Basic Teacher Certificate or C.I.

Course Description
Historical development and trends; English usage systems; materials; instructional strategies.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall
LAE6637 - Research in Teaching English

Course Title
Research in Teaching English

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Examination and interpretation of major research in English education. Design of models for research in language instruction in secondary schools.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring

LAE6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

LAE6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education
LAE6936 - Seminar in Language Arts Education

Course Title
Seminar in Language Arts Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Provides classroom teachers with opportunities to conduct in-depth explorations of timely topics related to teaching language and literacy.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer

LAE6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education

LAH - Latin American History

LAH5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of History
LAH5920 - Colloquium in Latin American History

**Course Title**

Colloquium in Latin American History

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Graduate standing or C.I.

**Course Description**

Examines the major themes and historiography of recent works on Latin American history. May be used in the degree program a maximum of 2 times only when course content is different.

**College**

College of Arts and Humanities

**Department**

Department of History

**Terms of Offering**

Occasional

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LAH5937 - Special Topics

**Course Title**

Special Topics

**Credits Hours**

3

**College**

College of Arts and Humanities

**Department**

Department of History

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LAH6909 - Research Report

**Course Title**

Research Report

**Credits Hours**

1 - 99

**College**

College of Arts and Humanities

**Department**

Department of History
LAH6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of History

LEI - Leisure

LEI5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

LEI5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
LEI6443 - Recreation

Course Title
Recreation

Credits Hours
3

Lab/Studio/Field Work Hours
1

Course Description
A comprehensive study of public, private, and school recreation programs.

College
College of Community Innovation and Education

Department
School of Teacher Education

LEI6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

LEI6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

LEI6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
LIN - Linguistics

LIN5137 - Linguistics

Course Title
Linguistics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
Modern linguistic theories and studies focusing on language acquisition and development, contemporary American English, semantics, and para-linguistics.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional

LIN5675 - English Grammar and Usage

Course Title
English Grammar and Usage

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
An overview of modern grammar, including structural, transformational and rhetorical grammar, along with an examination of controversial usage.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits Hours</th>
<th>College</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN5917</td>
<td>Directed Research</td>
<td>1 - 99</td>
<td>College of Arts and Humanities</td>
<td>Department of English</td>
</tr>
<tr>
<td>LIN5937</td>
<td>Special Topics</td>
<td>3</td>
<td>College of Arts and Humanities</td>
<td>Department of English</td>
</tr>
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<td>Research Report</td>
<td>1 - 99</td>
<td>College of Arts and Humanities</td>
<td>Department of English</td>
</tr>
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<td>Directed Research</td>
<td>1 - 99</td>
<td>College of Arts and Humanities</td>
<td>Department of English</td>
</tr>
</tbody>
</table>
LIN6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of English

LIT - Literature

LIT5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of English

LIT5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of English
LIT6039 - Studies in Contemporary Poetry

Course Title
Studies in Contemporary Poetry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in MFA Creative Writing program or C.I.

Course Description
English language poetry from 1945 to the present. Emphasis on American poets, but others such as English or Australian will be included. May be used in the degree program a maximum of 2 times.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional

LIT6076 - Studies in Contemporary Nonfiction

Course Title
Studies in Contemporary Nonfiction

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Creative Writing MFA Program or C.I. based on submission of manuscript. Comprehensive study of nonfiction, including memoir, personal essay, literary journalism, and/or nature writing, with special emphasis on craft. May be used in the degree program a maximum of 2 times.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional
LIT6097 - Studies in Contemporary Fiction

**Course Title**
Studies in Contemporary Fiction

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in MFA in Creative Writing program or C.I.

**Course Description**
Fiction in the last 20 years in the United States and Britain. May be used in the degree program a maximum of 2 times.

**College**
College of Arts and Humanities

**Department**
Department of English

**Terms of Offering**
Occasional

LIT6216 - Issues in Literary Study

**Course Title**
Issues in Literary Study

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in English or C.I.

**Course Description**
Specific issues and controversies in literary study. May be used in the degree program a maximum of 4 times only when course content is different.

**College**
College of Arts and Humanities

**Department**
Department of English

**Terms of Offering**
Occasional
LIT6276 - Teaching College Literature

Course Title
Teaching College Literature

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in English or C.I.

Course Description
Pedagogical theory and practical techniques for teaching literature in college and university settings.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional

LIT6435 - Rhetoric of Science

Course Title
Rhetoric of Science

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in English or C.I.

Course Description
Rhetorical analysis of traditional scientific texts and critically examine the discourse of technology.

College
College of Arts and Humanities

Department
Department of English

Terms of Offering
Occasional
LIT6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of English

LIT6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of English

LIT6936 - Studies in Literary, Cultural, and Textual Theory

**Course Title**
Studies in Literary, Cultural, and Textual Theory

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing and C.I.

**Course Description**
Specific topics in the study of literature that foreground cultural and theoretical issues. May be used in the degree program a maximum of 4 times only when course content is different.

**College**
College of Arts and Humanities

**Department**
Department of English

**Terms of Offering**
Occasional
LIT6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of English

MAA - Mathematics Analysis

MAA5210 - Topics in Advanced Calculus

Course Title
Topics in Advanced Calculus

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAS 3105, MAP 2302, or equivalent or C.I.

Course Description
Real numbers, epsilon-delta language, limits, continuity, integration, differentiation, Taylor's theorem, series, uniform convergence, inverse and implicit function theorems.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Fall

2021-2022 Graduate Catalog
MAA5228 - Analysis I
Course Title
Analysis I
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
• MAS 3106 or C.I.
Course Description
Real numbers, limits, differentiation, Riemann integrals, Riemann-Stieltjes integrals, calculus in $\mathbb{R}^n$; metric and normed spaces, contraction mapping theorem, inverse and implicit functions.
College
College of Sciences
Department
Department of Mathematics
Terms of Offering
Fall

MAA5237 - Mathematical Analysis
Course Title
Mathematical Analysis
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
• MAA 4226, or MAA 5210, or C.I.
Course Description
Metric spaces, sequences, limits, and continuous functions, multi-variable function differentiation and Riemann integrals, uniform convergence, series of numbers and functions.
College
College of Sciences
Department
Department of Mathematics
Terms of Offering
Fall
MAA5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Mathematics

MAA5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Mathematics

MAA6229 - Analysis II
Course Title
Analysis II
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- MAA 5228 or C.I.
Course Description
Topological Spaces, Banach Spaces, Hilbert Spaces, Bounded Linear Operators, Distribution and Fourier Transform, Measure Theory and Function Spaces.
College
College of Sciences
Department
Department of Mathematics
Terms of Offering
Spring

2021-2022 Graduate Catalog
MAA6238 - Measure and Probability I

Course Title
Measure and Probability I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAA 6229 or C.I.

Course Description
The law of large numbers, central limit theorems, random walks, Poisson processes, stopping times, martingales.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional

MAA6245 - Measure and Probability II

Course Title
Measure and Probability II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
MAA 6238, or C.I. Martingales, Markov Processes, stopping times, Brownian motion, Weiner measure.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional
MAA6306 - Real Analysis

**Course Title**
Real Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAA 5210.

**Course Description**
Sets, function spaces, Lebesque measure, Lebesque-Stieltjes measure, measurable functions, convergence notions, general measure and integration, Radon-Nikodym theorem.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Occasional

MAA6404 - Complex Analysis

**Course Title**
Complex Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAA 6405, MAA 4402, MAA 4226, or C.I.

**Course Description**
Review of complex variable theory; advanced topics chosen from conformal mapping and its applications, boundary behavior, numerical techniques; singular integrals.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Occasional
MAA6405 - Complex Variables

Course Title
Complex Variables

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAA 5228 or C.I.

Course Description
Complex plane, analytic functions, harmonic functions, Cauchy's theorem and integral formula, maximum modulus principle, Laurent series, singularities, the residue theorem.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Spring

MAA6416 - Topology

Course Title
Topology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAA 4226, MTG 4302.

Course Description
Topological spaces and continuous functions, connectedness and compactness, separation axioms, metrization theorems, Baire spaces and dimension theory, the fundamental group and homotopy paths.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Even Spring

2021-2022 Graduate Catalog
MAA6506 - Functional Analysis

Course Title
Functional Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAA 4226 or C.I.

Course Description
Normed vector spaces, linear operators, Baire Category theorem, Banach fixed point theorem, Hahn-Banach theorem and applications, open mapping and closed graph theorem with applications, Hilbert space, Gateaux and Frechet.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Even Spring

MAA6508 - Hilbert Spaces with Applications

Course Title
Hilbert Spaces with Applications

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 2302, MAS 3106, or C.I.

Course Description
Normed and inner product spaces; Hilbert spaces; orthonormal systems; linear operators and spectral decomposition; applications to differential and integral equations.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional
MAA6531 - Analysis of Manifolds

Course Title
Analysis of Manifolds

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Matrix or Linear Algebra, MAA 4226 or MAA 5210, or C.I. Derivatives as linear transformations, inverse function theorem, manifolds and integration of real-valued functions on manifolds, wedge products, differential forms, vector analysis as a specific case.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional

MAA6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Mathematics

MAA6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Mathematics
MAA6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Mathematics

MAA7239 - Asymptotic Methods in Mathematical Statistics

Course Title
Asymptotic Methods in Mathematical Statistics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 6111 or C.I.

Course Description
Large sample theory, martingale sequences, probability measures on metric spaces, absolute continuity and singularity, Hellinger distance, functions of statistics, asymptotic theory of estimation and applications.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional

MAA7919 - Doctoral Research

Course Title
Doctoral Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Mathematics
MAD5205 - Graph Theory I

Course Title
Graph Theory I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAD 4203, graduate standing or C.I.

Course Description
Connectivity, Hamilton cycles, spanning trees, network flows, matchings, vertex and edge colorings planar graphs, extremal problems, Ramsey theory, spectral graph theory.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Odd Spring

MAD5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Mathematics

MAD5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Mathematics
MAD6309 - Graph Theory II

Course Title
Graph Theory II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
MAD 5205 or C.I. Perfect graphs, structure of 3-connected graphs, matchings, nowhere zero flows, list coloring, extremal problems, Tutte polynomial, Hadwiger conjecture, Erdos-Hajnal conjecture, Vising's conjecture.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional

MAD6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Mathematics

MAD6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Mathematics
**MAD6938 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Mathematics

**MAD7939 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Mathematics

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**MAE - Mathematics Education**

**MAE5327 - Teaching Middle School Mathematics**

**Course Title**
Teaching Middle School Mathematics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDG 6415 and TSL 5085 or admission to Initial Teacher Professional Preparation certificate.

**Course Description**
Students will develop skills in planning and delivering mathematics instruction in grades 5-9. The use of technology, cooperative learning, ESOL, and manipulatives is considered.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Occasional
MAE5336 - Current Methods in Secondary School Mathematics

**Course Title**
Current Methods in Secondary School Mathematics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDG 6415, TSL 5085, or admission to MED program or Initial Teacher Professional Preparation certificate.

**Course Description**
Required special methods course for mathematics 6-12 certification. Assessment, curriculum, technology, practical classroom ideas and activities.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Occasional

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MAE5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education
MAE5935 - Post-Secondary Mathematics

Course Title
Post-Secondary Mathematics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or senior standing or C.I.

Course Description
The course will focus on issues which are faced by teachers of collegiate mathematics. Topics will be selected from teaching issues, program issues, and other issues.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Even Fall

MAE5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
MAE6318 - Current Methods in Elementary School Mathematics

Course Title
Current Methods in Elementary School Mathematics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EDE 6933 or C.I.

Course Description
Strategies of instruction of computation and concepts of number, geometry, and measurement; and algebra. Standards for teaching mathematics.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall

MAE6337 - Teaching Algebra in the Secondary School

Course Title
Teaching Algebra in the Secondary School

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAE 3330 or C.I.

Course Description
Addresses specific techniques for developing algebra skills for pre-algebra through precalculus algebra needs. Logical deductions, problem solving, computer applications, and innovative methods are explored.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Even Summer
MAE6338 - Teaching Geometry in the Secondary School

Course Title
Teaching Geometry in the Secondary School

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAE 3330 or C.I.

Course Description
This course addresses specific techniques for developing geometry skills beginning in the general mathematics classes of grade 6 through the high school geometry course.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Odd Summer

MAE6517 - Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher

Course Title
Diagnosis/Remediation of Difficulties in Mathematics for the Classroom Teacher

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Basic Teacher Certificate or C.I.

Course Description
The study of techniques for diagnosis and remediation of difficulties in mathematics.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Odd Summer
MAE6641 - Problem Solving and Critical Thinking Skills

Course Title
Problem Solving and Critical Thinking Skills

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- Regular Certificate or C.I.

Course Description
Development of procedures and practices necessary to implement critical thinking skills and problem solving techniques in the schools.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring

MAE6656 - Using Technology in the Instruction of K-12 Mathematics

Course Title
Using Technology in the Instruction of K-12 Mathematics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
The application of computer technology to mathematics instruction including calculators, CAI, CMI, application software, simulators, and video disc technology.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Even Fall
MAE6899 - Seminar in Teaching Mathematics

Course Title
Seminar in Teaching Mathematics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Six semester hours of graduate credit in mathematics education.

Course Description
Development of historical and current issues, forces, and individuals and their impact on the teaching of mathematics K-12. Consideration of advanced instructional techniques. May be repeated for credit.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall

MAE6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

MAE6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education
MAE6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

MAE6949 - Cooperative Education in Mathematics Education

**Course Title**
Cooperative Education in Mathematics Education

**Credits Hours**
0 - 99

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

MAE7367 - Instructional Coaching in K-8 Mathematics

**Course Title**
Instructional Coaching in K-8 Mathematics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- MAE 7817: Content Knowledge for Teaching K-8 Mathematics I

**Course Description**
This course addresses improving instructional quality in mathematics by collecting data that influences instruction and implementing strategies for coaching to improve student outcomes.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Fall
MAE7640 - History of Mathematics Education

Course Title
History of Mathematics Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing.

Course Description
Study of issues and forces that have shaped mathematics education including policies, classroom practices, curriculum development, instructional materials, technology and assessment of learning.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Even Spring

MAE7795 - Seminar on Research in Mathematics Education

Course Title
Seminar on Research in Mathematics Education

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- Doctoral standing.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Even Summer
MAE7804 - Content Knowledge for Teaching K-8 Mathematics II

Course Title
Content Knowledge for Teaching K-8 Mathematics II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAE 7817: Content Knowledge for Teaching K-8 Mathematics I.

Course Description
This course addresses pedagogical content knowledge for supporting K-8 mathematics teachers. Topics include integers; proportional relationships; equations, expressions, and inequalities; geometry and measurement; and statistics.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall

MAE7805 - Policies, Practices, and Structures in K-8 Mathematics Education

Course Title
Policies, Practices, and Structures in K-8 Mathematics Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral Standing.

Course Description
This course explores existing inequitable policies, practices, and structures in K-8 mathematics education and strategies to develop equitable, just, and inclusive K-8 mathematics programs.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall
MAE7817 - Content Knowledge for Teaching K-8 Mathematics I

Course Title
Content Knowledge for Teaching K-8 Mathematics I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
This course addresses pedagogical content knowledge for supporting K-8 mathematics teachers. Topics include whole number concepts and operations, and rational number concepts and operations.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall

MAE7819 - Professional Leadership in K-8 Mathematics Education

Course Title
Professional Leadership in K-8 Mathematics Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral Standing.

Course Description
This course culminates professional leadership experiences in the doctoral program and leverages knowledge of content, methods, practices & policies in K-8 mathematics education.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Occasional
MAE7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

MAE7930 - Seminar in K-8 Mathematics Education

Course Title
Seminar in K-8 Mathematics Education

Credits Hours
1 - 2

Lab/Studio/Field Work Hours
0

Prerequisites
- Acceptance into K-8 Mathematics Specialization of Curriculum and Instruction Ed.D.

Course Description
This course addresses requirements of the K-8 Mathematics Education Specialization within the Curriculum and Instruction Ed.D. and supports synthesis of the learning in the program.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
MAE7945 - Internship in Mathematics Education

**Course Title**
Internship in Mathematics Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Math Ed track of the Ph.D. in Education.

**Course Description**
The focus of this course is on student's participation in teaching and service related to mathematics education. May be used in the degree program a maximum of 2 times.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Every Semester

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**MAN - Management**

MAN5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Business Administration

**Department**
Department of Management

MAN5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Business Administration

**Department**
Department of Management
MAN6066 - Ethical Leadership

**Course Title**
Ethical Leadership

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in the College of Business Administration or C.I.

**Course Description**
Building on a foundation of basic theories of ethical decision making from organizational and behavioral perspectives. The course examines challenges involved in maintaining exemplary professional ethics.

**College**
College of Business Administration

**Department**
Department of Management

**Terms of Offering**
Occasional

MAN6146 - Professional Leadership I

**Course Title**
Professional Leadership I

**Credits Hours**
1.5

**Lab/Studio/Field Work Hours**
0

**Course Description**
The Professional Leadership course is comprised of two complementary 1.5-credit modules. Part I includes topics, cases, reading assignments, and exercises that are designed to develop cognitive and interpersonal skills.

**College**
College of Business Administration

**Department**
Department of Management

**Terms of Offering**
Fall
MAN6147 - Professional Leadership II

Course Title

Professional Leadership II

Credits Hours

1.5

Lab/Studio/Field Work Hours

0

Course Description

The Professional Leadership course is comprised of two complementary 1.5-credit modules. Part II includes topics, cases, reading assignments, and exercises that are designed to develop cognitive and interpersonal skills related to strategic leadership, leading change, and leading during a crisis.

College

College of Business Administration

Department

Department of Management

Terms of Offering

Spring

MAN6245 - Organizational Behavior and Development

Course Title

Organizational Behavior and Development

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- CBA master's program of study foundation core or C.I.

Course Description

The analysis of human behavior in organizations in terms of the individual, small group, intergroup relationships, and the total organization.

College

College of Business Administration

Department

Department of Management

Terms of Offering

Fall
MAN6285 - Change Management

Course Title
Change Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Course designed to familiarize students with change management processes and interventions.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Even Fall

MAN6296 - Executive Leadership

Course Title
Executive Leadership

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Executive MBA program.

Course Description
A review of the theory, research, and practice of leadership in organizations. Special attention to contemporary leadership issues, including transactional and transformational leadership.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Odd Spring
MAN6305 - Human Resources Management

Course Title
Human Resources Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Course is designed as an overview of human resources practices, techniques and strategies.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Occasional

MAN6311 - Advanced Topics in Human Resources Management

Course Title
Advanced Topics in Human Resources Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAN 6305 or C.I.

Course Description
An in-depth analysis of current human resource issues related to the attraction, management, and retention of human capital.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Occasional
MAN6325 - Applied Research Tools
Course Title
Applied Research Tools
Credits Hours
3
Lab/Studio/Field Work Hours
0
Course Description
Development of applied qualitative and quantitative research skills for collecting, analyzing and reporting data to organizations.
College
College of Business Administration
Department
Department of Management

MAN6385 - Strategic Human Resources Management
Course Title
Strategic Human Resources Management
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- MAN 6305 or C.I.
Course Description
Examination of the strategic orientation of human resources management and the development of the human resources architecture aligned with the organization's strategy and task environment.
College
College of Business Administration
Department
Department of Management
Terms of Offering
Occasional
MAN6395 - Leadership Development and Coaching

Course Title
Leadership Development and Coaching

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Course is designed to prepare students to understand the nature and role of leadership development with an emphasis on coaching.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Occasional


MAN6448 - Conflict Resolution and Negotiation

Course Title
Conflict Resolution and Negotiation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Theory and processes of negotiation in a variety of settings, with relevance to the broad spectrum of negotiation faced by managers.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Occasional
MAN6581 - Project Management

Course Title
Project Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Integrated Business track in the Masters of Science in Management.

Course Description
Introduces key project management skills and strategies with a focus on methods needed to initiate and manage projects efficiently and effectively.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Spring

MAN6721 - Applied Strategy and Business Policy

Course Title
Applied Strategy and Business Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MBA Professional Core I and taken in last semester of program.

Course Description
This capstone course integrates the various functional disciplines in business administration. It focuses on the theories and frameworks in the field of strategic management.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Spring
MAN6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Management

MAN6915 - Applied Field Project
Course Title
Applied Field Project
Credits Hours
3 - 6
Lab/Studio/Field Work Hours
0
Prerequisites
- All other courses in the selected track in the program.
Course Description
Capstone course; applies concepts, theories and methods learned earlier in program to organizational problems in business settings.
College
College of Business Administration
Department
Department of Management
Terms of Offering
Occasional

MAN6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Management
MAN6938 - Management Research Forum

**Course Title**
Management Research Forum

**Credits Hours**
1 - 99

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission to doctoral program.

**Course Description**
Research and pedagogical issues in management, including research presentations by faculty, doctoral students, and invited scholars.

**College**
College of Business Administration

**Department**
Department of Management

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MAN7207 - Organization Theory

**Course Title**
Organization Theory

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Doctoral status.

**Course Description**
Study of impact of environment, technology, size and innovation on organization structure, functions and development.

**College**
College of Business Administration

**Department**
Department of Management

**Terms of Offering**
Occasional
MAN7275 - Organizational Behavior

**Course Title**
Organizational Behavior

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Doctoral standing or C.I.

**Course Description**
In-depth review of the classic and modern organizational behavior research literature, which deals with management of individual and group behavior in organizations.

**College**
College of Business Administration

**Department**
Department of Management

**Terms of Offering**
Occasional

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MAN7776 - Business-level Strategic Management

**Course Title**
Business-level Strategic Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to doctoral program and C.I.

**Course Description**
In-depth review of the classic and modern business-level strategy research literature, which deals with topics such as competitive strategy, industry analysis and the strategy process.

**College**
College of Business Administration

**Department**
Department of Management

**Terms of Offering**
Occasional
MAN7900 - Directed Readings in Management

**Course Title**
Directed Readings in Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to doctoral program and C.I.

**Course Description**
Directed readings in the area of Management concentration, as determined by the student's doctoral study advisory committee. May be repeated for credit.

**College**
College of Business Administration

**Department**
Department of Management

**Terms of Offering**
Occasional

MAN7916 - Seminar in Management Research

**Course Title**
Seminar in Management Research

**Credits Hours**
1 - 99

**Prerequisites**
- Admission to PhD program or C.I.

**Course Description**
Examines empirical and theoretical research in selected management topics. Specific topics may not be repeated for credit. Maximum of 15 hours toward degree. May be repeated for credit only when course content is different.

**College**
College of Business Administration

**Department**
Department of Management

**Terms of Offering**
Occasional
MAN7919 - Research

**Course Title**
Research

**Credits Hours**
1 - 99

**College**
College of Business Administration

**Department**
Department of Management

MAN7922 - Management Research Forum

**Course Title**
Management Research Forum

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission to doctoral program.

**Course Description**
Research and pedagogical issues in management, including research presentations by faculty, doctoral students, and invited scholars.

**College**
College of Business Administration

**Department**
Department of Management

**Terms of Offering**
Spring
Fall

MAN7939 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Business Administration

**Department**
Department of Management

MAP - Mathematics Applied
MAP5117 - Mathematical Modeling

Course Title
Mathematical Modeling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 4321, MAP 4303, graduate standing or senior standing, or C.I.

Course Description
Introduction to modeling in industrial and scientific applications; techniques for studying statistical and deterministic models.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Even Fall

MAP5336 - Ordinary Differential Equations and Applications

Course Title
Ordinary Differential Equations and Applications

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAA 5228 or C.I.

Course Description
Existence and uniqueness of solutions of differential equations, systems of ordinary differential equations, autonomous systems, phase plane analysis, stability, bifurcations.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Spring
MAP5426 - Special Functions

Course Title
Special Functions

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 2302, and graduate status or senior standing or C.I.

Course Description
Series and integral representations, generating functions, recurrence relations and orthogonality properties of the special functions. Emphasis on Bessel, Legendre and hypergeometric functions.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional

MAP5435 - Advanced Mathematics for Engineers

Course Title
Advanced Mathematics for Engineers

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 2302, and graduate status or senior standing or C.I.

Course Description
Linear Algebra and matrix methods, ordinary differential equations, Fourier series, partial differential equations, numerical methods for differential equations, and applications to engineering.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional
MAP5606 - Differential Equations for Financial Mathematics

**Course Title**
Differential Equations for Financial Mathematics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAP 4341 or C.I.

**Course Description**
Initial value problem, terminal value problem, existence and uniqueness, Gronwall’s inequality, linear system theory, parabolic PDE, elliptic PDE, basic regularity theory, maximum principle, stability.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Fall

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MAP5612 - Computational Methods for Financial Mathematics I

**Course Title**
Computational Methods for Financial Mathematics I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Financial Mathematics Track in the M.S. in Mathematical Sciences, or C.I.

**Course Description**
Numerical modeling, Numerical solutions, stability issues for Ordinary and Partial Differential Equations within the setting of financial mathematics.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Fall
MAP5641 - Financial Mathematics I

Course Title
Financial Mathematics I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 5612 or C.I.

Course Description
Single-period market, arbitrage, risk-neutral probability measure, market completeness, mean-variance portfolio analysis, multi-period market, binomial tree, contingent claim pricing.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Fall

MAP5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Mathematics
MAP5931 - Proseminar for Financial Mathematics

Course Title
Proseminar for Financial Mathematics

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Financial Mathematics Track in the M.S. in Mathematical Sciences, or C.I.

Course Description
Seminar to develop basic career skills in Financial Mathematics.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Odd Fall

MAP5933 - Seminar in Financial Mathematics

Course Title
Seminar in Financial Mathematics

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 5931

Course Description
Seminar to develop advanced career skills in Financial Mathematics.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Odd Fall
MAP5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Mathematics

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MAP6111 - Mathematical Statistics

**Course Title**
Mathematical Statistics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAA 6238 - Measure and Probability I or C.I.

**Course Description**
Strong laws of large numbers, consistency and asymptotic normality, complete and sufficient statistics, maximum likelihood and least squares, optimal estimators, hypothesis testing.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Spring
MAP6118 - Introduction to Nonlinear Dynamics

**Course Title**
Introduction to Nonlinear Dynamics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAP 5336, PHY 2048C or equivalent, or C.I.

**Course Description**
Nonlinear differential equations; bifurcation theory; Hamiltonian dynamics; integrable systems and breakdown of integrability; chaos in conservative and dissipative systems.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Occasional

MAP6168 - Mathematical Modeling II

**Course Title**
Mathematical Modeling II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAP 5117, graduate standing, or C.I.

**Course Description**
Solutions of complex industrial mathematics problems in navigation/guidance, object tracking, pattern recognition, and fluid dynamics.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Occasional
MAP6195 - Mathematical Foundations for Massive Data Modeling and Analysis

Course Title
Mathematical Foundations for Massive Data Modeling and Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAA 5228 and MAS 5145 or C.I.

Course Description
Mathematical model and analysis of massive data, numerical algorithms, optimization, nonlinear and sparse models.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Even Spring
Even Fall

MAP6197 - Mathematical Introduction to Deep Learning

Course Title
Mathematical Introduction to Deep Learning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAT 5712 Scientific Computing, or C.I.

Course Description
Covers feed-forward and convolutional neural networks, loss functions, gradient descent optimization and selected topics from the current research literatures.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional
MAP6207 - Optimization Theory

Course Title
Optimization Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAA 4226 or C.I.

Course Description
Lagrangian function and duality, Kuhn-Tucker' theorem, quadratic programming and Wolfe's theorem, Griffith and Stewart's method, search methods for unconstrained optimization.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional

MAP6218 - Stochastic Calculus

Course Title
Stochastic Calculus

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
MAA 6245, or C.I. Stochastic integration, Stochastic Differential Equations.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional
MAP6356 - Partial Differential Equations

Course Title
Partial Differential Equations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 4341 or MAP 5435 or equivalent.

Course Description
First and second order linear equations; classification; analytical methods including Green’s functions and integral representations; introduction to nonlinear equations; applications.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Even Fall

MAP6385 - Applied Numerical Mathematics

Course Title
Applied Numerical Mathematics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAT5712 Scientific Computing, or C.I.

Course Description
Topics in solutions of linear systems, numerical linear algebra, numerical solutions of partial differential equations, linear programming and optimization.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Spring
MAP6387 - Numerical Linear Algebra

**Course Title**
Numerical Linear Algebra

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAT 5712 Scientific Computing, MAP 6385 Applied Numerical Mathematics, or C.I

**Corequisites**
The students should be very comfortable with applying the theorems from Calculus, Linear Algebra concepts and using MATLAB or Fortan as a programming language.

**Course Description**
Prepares students to understand fundamentals of numerical linear algebra and its algorithms, optimization and statistics, and machine learning algorithms with applications.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Occasional

MAP6407 - Integral Equations and the Calculus of Variations

**Course Title**
Integral Equations and the Calculus of Variations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAP 3203 and MAS 3105, or graduate standing, or C.I.

**Course Description**

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Fall
MAP6408 - Perturbations and Asymptotic Methods

Course Title
Perturbations and Asymptotic Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 3203, MAS 3105, and MAA 4402, or graduate standing, or C.I.

Course Description

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Spring

MAP6416 - Applied and Computational Harmonic Analysis

Course Title
Applied and Computational Harmonic Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
MAA 6229 or C.I. Fourier Series, Fourier transform, Littlewood-Paley theory, Heisenberg uncertainty principle, wavelets, frame theory, Karhunen-Loeve transform, comprehensive sensing, matrix completion, phase retrieval, signal processing.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional
MAP6419 - Advanced Transform Methods

Course Title
Advanced Transform Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 6424 or C.I.

Course Description
Fourier analysis and sliding-window Fourier transform, sampling theory and its applications in signal analysis and optics, Radon transforms, the technique of back projection.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional

MAP6420 - Generalized Functions

Course Title
Generalized Functions

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAA 6506 or C.I.

Course Description
Spaces of test functions and their duals, calculus of distributions, convolution and tempered distributions, Fourier transforms of distributions, and applications to PDEs.

College
College of Sciences

Department
Department of Mathematics
MAP6421 - Integral Equations
Course Title
Integral Equations
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- MAA 6405 or C.I.
Course Description
Successive approximations, Volterra equations, Fredholm theory, Hilbert-Schmidt theory, Newmann series, singular integral equations, the Riemann-Hilbert problem.
College
College of Sciences
Department
Department of Mathematics
Terms of Offering
Occasional

MAP6424 - Transform Methods
Course Title
Transform Methods
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- MAA 6405 or C.I.
Course Description
Laplace, Fourier, Hankel, and other integral transforms, inversion theorems; the Z transform; applications to physical problems.
College
College of Sciences
Department
Department of Mathematics
Terms of Offering
Occasional
MAP6438 - Mathematical Fluid-Flow Theory I

**Course Title**
Mathematical Fluid-Flow Theory I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAP 2302, MAP 4303, MAA 4402, PHY 3220 or equivalent, or C.I.

**Course Description**
Mathematical theory of incompressible fluid flows along with analytical methods in solving the equations of fluid dynamics in various situations.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**

MAP6445 - Approximation Techniques

**Course Title**
Approximation Techniques

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAA 4227, MAA 5210 or C.I.

**Course Description**
Normed linear spaces; Weierstrass approximation theorem; Tchebycheff approximation by polynomials; trigonometric approximation; orthogonal expansions and least squares approximations.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Occasional
MAP6465 - Wavelets and Their Applications
Course Title
Wavelets and Their Applications
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- MAP 4341, MAA 6508, or C.I.
Course Description
Continuous wavelet transforms, discrete wavelet transforms, frames, Zak transform, multi-resolution analysis, orthonormal bases of compactly supported wavelets, spline wavelets.
College
College of Sciences
Department
Department of Mathematics
Terms of Offering
Even Fall
Even Spring

MAP6469 - Bayesian Analysis and Approximation Theory
Course Title
Bayesian Analysis and Approximation Theory
Credits Hours
3
Lab/Studio/Field Work Hours
0
Course Description
One of the following combinations: (1) Either MAA 5210 or MAA 5228 and MAS 5145; (2) AST 4762C or AST 5765; or (3) C.I. Bayes' theorem, Fourier and wavelet transforms. Function approximation in multidimensional spaces. Kernels, Splines. Bayesian data analysis, Monte Carlo and Markov Chain Monte Carlo methods.
College
College of Sciences
Department
Department of Mathematics
Terms of Offering
Occasional
MAP6616 - Computational Methods for Financial Mathematics II

Course Title
Computational Methods for Financial Mathematics II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 5612 or C.I.

Course Description
Monte-Carlo methods, Numerical aspects of stochastic differential equations.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Spring

MAP6642 - Financial Mathematics II

Course Title
Financial Mathematics II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 5641 or C.I.

Course Description
Theoretical discussion of Stochastic processes, Brownian motion, Ito's integral, Ito's formula, martingales, Girsanov's transformation, stochastic differential equations, option pricing.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Spring
MAP6646 - Risk Management for Financial Mathematics

Course Title
Risk Management for Financial Mathematics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAP 5641 or C.I.

Course Description
Credit risk, counter party credit risk, securitizations, market risk, operational risk, asset liability management, Basel III regulations.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Fall

MAP6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Mathematics

MAP6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Mathematics
MAP6938 - ST: Theory and Applications of q-series

Course Title
ST: Theory and Applications of q-series

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• Mathematics graduate student, or C.I.

Course Description
The theory of basic hypergeometric functions and their applications to discrete mathematics

College
College of Sciences

Department
Department of Mathematics

MAP7119 - Advanced Nonlinear Dynamics

Course Title
Advanced Nonlinear Dynamics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• MAP 6118 or C.I.

Course Description
Solitons, inverse scattering transform, breakdown or integrability, analytic structure of dynamical systems, fractal aspects of turbulence.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional
**MAP7359 - Advanced Topics in Partial Differential Equations**

**Course Title**
Advanced Topics in Partial Differential Equations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAP 6356, MAA 6506, or C.I.

**Course Description**
The course prepares students advanced PDE techniques needed for their future research.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Occasional

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**MAP7386 - Numerical Solutions of PDE**

**Course Title**
Numerical Solutions of PDE

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAP 6356, MAP 6385 or C.I.

**Course Description**
Numerical solution of linear and nonlinear partial differential equations of parabolic, elliptic and hyperbolic type. Solution of PDE using finite difference and spectral methods.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Occasional
**MAP7439 - Mathematical Fluid-Flow Theory II**

**Course Title**
Mathematical Fluid-Flow Theory II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAP 6438 or C.I.

**Course Description**
Mathematical theory of compressible potential flow, nonlinear acoustics, exact solutions to equations of viscous fluid flow, viscous fluid flows at low or high Reynolds numbers.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Odd Fall

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**MAP7919 - Research**

**Course Title**
Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Mathematics

---

**MAR - Marketing**

**MAR5917 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Business Administration

**Department**
Department of Marketing
MAR5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Business Administration
Department
Department of Marketing

MAR6409 - Lead Management
Course Title
Lead Management
Credits Hours
3
Lab/Studio/Field Work Hours
1
Course Description
Lead management is responsible for generating high quality sales leads and nurturing them into customers. The goal of the class is to help students become familiar with lead management activities, technologies, and strategies for accomplishing this objective.
College
College of Business Administration
Department
Department of Marketing
Terms of Offering
Spring
MAR6416 - Sales and Marketing Strategies

Course Title
Sales and Marketing Strategies

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Integrated Business track of the Masters of Science in Management.

Course Description
Marketing strategy including analytical and conceptual tools. Introduction to digital marketing and the sales process. Conceptualization of integrated marketing and sales plans.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Fall

MAR6466 - Strategic Supply Chain and Operations Management

Course Title
Strategic Supply Chain and Operations Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Master's program of study foundation core or C.I.

Course Description
Planning and management of all activities involved in designing and managing the processes, assets, and flows of material and information required to meet customers' demands.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Spring
**MAR6476 - Sales Force Management**

**Course Title**
Sales Force Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
1

**Course Description**
Overview of the sales management process with an emphasis on sales program formulation and management. The overall goal of Strategic Sales Force Management is to examine the elements of an effective sales force as a key component of the organization's total marketing strategy with an emphasis on a highly effective use of the value proposition.

**College**
College of Business Administration

**Department**
Department of Marketing

**Terms of Offering**
Fall

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**MAR6477 - Sales Analytics**

**Course Title**
Sales Analytics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
1

**Course Description**
This class is intended to simulate the real-world selling environment. It will introduce students to the technological tools in data management and analysis as applied to the sales process. The course will accomplish two key objectives: 1. An 'analytics' perspective on the selling and buying processes: things that don't get measured don't get changed! 2. Analysis of sales management challenges and analytics applications using the case method of instruction.

**College**
College of Business Administration

**Department**
Department of Marketing

**Terms of Offering**
Fall
MAR6646 - Marketing Analytics for Strategic Decision Making

Course Title
Marketing Analytics for Strategic Decision Making

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Consent of College of Business Graduate Studies.

Course Description
Study of a variety of data-driven models and techniques used to understand customers, improve results, and facilitate strategic decision making.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Occasional

MAR6722 - Digital Marketing Management

Course Title
Digital Marketing Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- CBA master's program of study foundation core.

Course Description
Understand how digital marketing differs from conventional marketing. Develop an ability to formulate digital marketing applications and build viable digital marketing strategies.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Occasional
MAR6729 - Marketing of High Technology Products

Course Title
Marketing of High Technology Products

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CBA master’s program of study foundation core.

Course Description
Understand high technology marketing issues. Acquire concepts and tools to develop high technology business models. Develop insights into branding, new product development, forecasting and CRM.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Occasional

MAR6816 - Strategic Marketing Management

Course Title
Strategic Marketing Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MBA Professional Core I.

Course Description
Marketing competitive strategy formulation with respect to product, pricing, promotion and distribution. Course aims at developing strategic thinking, functional marketing expertise and analytical skills.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Spring
Fall
MAR6849 - Services Marketing

Course Title
Services Marketing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Marketing in services industries is the focus of study with particular emphasis on unique aspects of services marketing, the service marketing mix, and the implementation of service strategies.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Occasional

MAR6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Marketing

MAR6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Marketing
MAR6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Business Administration
Department
Department of Marketing

MAR7575 - Seminar in Consumer Behavior
Course Title
Seminar in Consumer Behavior
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- ECO 7423 and admission to the PhD program.

Course Description
Provide doctoral students with a broad exposure to the literature of consumer behavior theories and methods.

College
College of Business Administration
Department
Department of Marketing
Terms of Offering
Occasional
MAR7626 - Multivariate Analysis for Business Research

Course Title
Multivariate Analysis for Business Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ECO 7423 or equivalent, C.I.

Course Description
Provides PhD students an in-depth treatment of multivariate analysis applications to marketing and business research problems.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Occasional

MAR7638 - Seminar in Marketing Theory, Scaling, and Measurement

Course Title
Seminar in Marketing Theory, Scaling, and Measurement

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- ECO 7423 and admission to the PhD program.

Course Description
Provide doctoral students with a foundation in marketing theory, scaling, and measurement.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Occasional
MAR7666 - Seminar in Marketing Models I

Course Title
Seminar in Marketing Models I

Credits Hours
1.5

Lab/Studio/Field Work Hours
0

Prerequisites
- ECO 7423 (or equivalent) and admission to the Ph.D. program or C.I.

Course Description
Overview of marketing literature with emphasis on marketing models topics.

College
College of Business Administration

Department
Department of Marketing

MAR7667 - Seminar in Marketing Models II

Course Title
Seminar in Marketing Models II

Credits Hours
1.5

Lab/Studio/Field Work Hours
0

Prerequisites
- ECO 7423 (or equivalent) and MAR 7666 and admission to Ph.D. program or C.I.

Course Description
Overview of marketing literature with emphasis on marketing models, beyond those covered MAR 7666.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Occasional
MAR7807 - Seminar in Marketing Strategy I

Course Title
Seminar in Marketing Strategy I

Credits Hours
1.5

Lab/Studio/Field Work Hours
0

Prerequisites
- ECO 7423 (or equivalent) and admission to the Ph.D. program or C.I.

Course Description
Overview of marketing literature with emphasis on marketing strategy topics.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Occasional

MAR7808 - Seminar in Marketing Strategy II

Course Title
Seminar in Marketing Strategy II

Credits Hours
1.5

Lab/Studio/Field Work Hours
0

Prerequisites
- ECO 7423 (or equivalent) and admission to Ph.D. program and MAR 7807, or C.I.

Course Description
Overview of marketing literature with emphasis on marketing strategy topics, beyond those covered in MAR 7807.

College
College of Business Administration

Department
Department of Marketing

Terms of Offering
Occasional
**MAR7919 - Research**

**Course Title**
Research

**Credits Hours**
1 - 99

**College**
College of Business Administration

**Department**
Department of Marketing

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**MAR7939 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Business Administration

**Department**
Department of Marketing

---

**MAS - Mathematics Algebraic Structures**

**MAS5145 - Advanced Linear Algebra and Matrix Theory**

**Course Title**
Advanced Linear Algebra and Matrix Theory

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MAS 3106 or C.I.

**Course Description**
Linear spaces, subspaces, linear transformations, matrices, eigenvalues and eigenvectors, Jordan forms, positive definite matrices, bilinear and quadratic forms, functions of matrices.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Even Fall

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2021-2022 Graduate Catalog
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits Hours</th>
<th>College</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAS5311</td>
<td>Algebra I</td>
<td>3</td>
<td>College of Sciences</td>
<td>Department of Mathematics</td>
</tr>
<tr>
<td></td>
<td>Prerequisites:</td>
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<tr>
<td></td>
<td>- MAS 4301 or graduate standing or C.I.</td>
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<tr>
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<td>Course Description</td>
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<tr>
<td></td>
<td>Sets and categories, groups and groupoids, group actions, the class equation, Sylow theorems, Jordan-Holder Theorem, Rings, Modules, Complexes, Factorization, and Irreducibility.</td>
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<td></td>
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<tr>
<td>MAS5917</td>
<td>Directed Research</td>
<td>1 - 99</td>
<td>College of Sciences</td>
<td>Department of Mathematics</td>
</tr>
<tr>
<td></td>
<td>Course Title</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Directed Research</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAS5937</td>
<td>Special Topics</td>
<td>3</td>
<td>College of Sciences</td>
<td>Department of Mathematics</td>
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<td></td>
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<td></td>
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<tr>
<td></td>
<td>Special Topics</td>
<td></td>
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</tbody>
</table>
MAS6116 - Introduction to Random Matrix Theory

Course Title
Introduction to Random Matrix Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAA 5210 Topics in Advanced Calculus and MAS 5145 Advanced Linear Algebra and Matrix Theory, or C.I.

Course Description
Introduction to random matrices, Wigner matrices and the Wigner semicircle law, Gaussian ensembles, orthogonal polynomials, eigenvalue distributions.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Occasional

MAS6312 - Algebra II

Course Title
Algebra II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAS 5311 or C.I.

Course Description
Modules over a principle ideal domain, Fields, Galois theory, Functors, Tensor product, Hom, Ext, Tor, Projective and Injective modules, Complexes, Derived Categories and Derived Functors.

College
College of Sciences

Department
Department of Mathematics

Terms of Offering
Even Fall
MAS6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Mathematics

MAS6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Mathematics

MAS6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Mathematics

MAS7919 - Doctoral Research
Course Title
Doctoral Research
Credits Hours
1 - 99
Course Description
May be repeated for credit.
College
College of Sciences
Department
Department of Mathematics
Terms of Offering
Occasional
**MAT - Mathematics**

**MAT5712 - Scientific Computing**

**Course Title**
Scientific Computing

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in mathematics or C. I.

**Course Description**
Introduction to numerical algorithms and programming, covering computer arithmetic, solution of nonlinear equations, approximation of functions, numerical integration, and numerical solution of ODEs.

**College**
College of Sciences

**Department**
Department of Mathematics

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**MCB - Microbiology**
MCB5117C - Microbial Genomics

**Course Title**
Microbial Genomics

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- MCB 3020C.

**Course Description**
This course introduces common concepts and tools in microbial genomics, which spans the fields of biology, bioinformatics, and phylogenetics. The course will provide hands-on experience applying computational tools. In addition, we will cover the basics of genomics, evolutionary theory, phylogenetics, bacterial recombination, metagenomics, bacterial genome-wide association studies, and data visualization.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Fall

MCB5205 - Infectious Processes

**Course Title**
Infectious Processes

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MCB 3020C or C.I.

**Course Description**
Discussion of current theories of the infectious process and the response of host cells and tissue to infection.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Fall
MCB5208 - Cellular Microbiology: Host-Pathogen Interactions

Course Title
Cellular Microbiology: Host-Pathogen Interactions

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, PCB 3522.

Course Description
Examination of the molecular details of host-pathogen interactions. Key areas of cell biology will be considered in relation to microbial pathogenesis.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Spring

MCB5209 - Microbial Stress Response

Course Title
Microbial Stress Response

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Examination of the molecular genetic mechanisms, bacterial and fungal pathogens used to adapt to changes in their environment.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Fall
MCB5225 - Molecular Biology of Disease

Course Title
Molecular Biology of Disease

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
An in-depth study of the molecular biological mechanism of diseases in experimental animal models and human populations.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Occasional

MCB5415 - Cellular Metabolism

Course Title
Cellular Metabolism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Basic concepts of the mechanisms that define the functioning and regulation of prokaryotic and eukaryotic cell metabolism.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Fall
MCB5505 - Molecular Virology

Course Title
Molecular Virology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
An in-depth overview of the fundamental aspects and current concerns in modern virology including HIV, tumor viruses Prion disease, virus-host interaction, genome replication and pathogenesis.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Occasional

MCB5722C - Methods in Biotechnology

Course Title
Methods in Biotechnology

Credits Hours
4

Lab/Studio/Field Work Hours
4

Prerequisites
- Graduate standing.

Course Description
A laboratory course that will train graduate students in fluorescence and luminescence-based assays used in biopharmaceutical industry for target validation.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Occasional

Current Fee Per Student
$70.00
MCB5917 - Directed Research
Course Title
Directed Research

Credits Hours
1 - 99

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

MCB5932 - Current Topics in Molecular Biology
Course Title
Current Topics in Molecular Biology

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
Jan-99

Prerequisites
- Graduate standing or C.I.

Course Description
Selected current research topics from the primary literature reflecting recent advances in molecular biology. May be repeated for credit.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Occasional

MCB5937 - Special Topics
Course Title
Special Topics

Credits Hours
1 - 99

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences
MCB6026 - Molecular Biology and Microbiology Capstone

Course Title
Molecular Biology and Microbiology Capstone

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Molecular Biology and Microbiology M.S. program (non thesis track).

Course Description
An in-depth current literature research report on a relevant subject will be developed by student and evaluated by faculty committee.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Occasional

MCB6226 - Molecular Diagnostics

Course Title
Molecular Diagnostics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
PCB 3522, PCB 4524 and MCB 5225 or C.I. A course in basic laboratory skills used in molecular genetic or clinical diagnostic laboratories for detecting genetic diseases.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Occasional
MCB6273 - Advanced Topics in Infectious Processes

**Course Title**
Advanced Topics in Infectious Processes

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Data presentations from the primary literature and from the student's original research will focus on the molecular mechanisms of host-pathogen interactions.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Occasional

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MCB6314 - Industrial Perspectives Seminar

**Course Title**
Industrial Perspectives Seminar

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Biotechnology MS students.

**Course Description**
Learning concepts of basic research and drug development in the pharmaceutical industry and technical presentation. May be used in the degree program a maximum of 2 times.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Summer
Fall
**MCB6417C - Microbial Metabolism**

**Course Title**
Microbial Metabolism

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- C.I. and Graduate Standing

**Course Description**
Relationship between microbial metabolism and principal cellular activities, emphasizing transport, respiration, differentiation, and synthesis.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Occasional

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**MCB6723 - Practice of Biomolecular Science**

**Course Title**
Practice of Biomolecular Science

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing. Provides MS and PhD students with an introduction to the practice of Biomolecular Science.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Occasional
MCB6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

MCB6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

MDC - Medicine Clinical Clerkship

MDC7002 - Transition to Core Clerkships

Course Title
Transition to Core Clerkships

Credits Hours
16

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M2 year.

Course Description
This 12-week rotation is intended to give M3 students an in-depth transition to the core clerkships, building clinical knowledge and skills that will be directly applicable in the clinical settings of each clerkship.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Summer
MDC7180 - Core Clerkship in Obstetrics and Gynecology

**Course Title**
Core Clerkship in Obstetrics and Gynecology

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M-2 term.

**Course Description**
During this 6-week required clerkship, you will be introduced to the obstetric and gynecologic care of women in the outpatient and inpatient settings.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

MDC7200 - Core Clerkship in Internal and Family Medicine

**Course Title**
Core Clerkship in Internal and Family Medicine

**Credits Hours**
16

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M-2 term.

**Course Description**
Students will learn care of the adult patient in both inpatient and outpatient settings, with emphasis on diagnosis and treatment in common medical disorders.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDC7400 - Core Clerkship in Pediatrics  
**Course Title**  
Core Clerkship in Pediatrics  

**Credits Hours**  
8  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Successful completion of M-2 term.  

**Course Description**  
This course is a 6 week, required clerkship introducing the student to the general inpatient and outpatient clinical care of children.  

**College**  
College of Medicine  

**Department**  
College of Medicine MD Program  

**Terms of Offering**  
Every Semester  

MDC7600 - Core Clerkship in Surgery and Surgical Selectives  

**Course Title**  
Core Clerkship in Surgery and Surgical Selectives  

**Credits Hours**  
10  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Completion of the M2 year.  

**Corequisites**  
- Must also be concurrently enrolled in an M3 elective course.  

**Course Description**  
The surgical clerkship will expose the student to the diagnosis, workup, treatment, and follow up care of a broad spectrum of both common and not so common surgical diseases.  

**College**  
College of Medicine  

**Department**  
College of Medicine MD Program  

**Terms of Offering**  
Occasional
MDC7710 - Core Clerkship in Emergency Medicine

Course Title
Core Clerkship in Emergency Medicine

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 clerkships.

Course Description
Four week core clerkship introduces the student to initial evaluation and workup as well as diagnostic ordering and treatment of patients presenting to the emergency department.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDC7800 - Core Clerkship in Neurology

Course Title
Core Clerkship in Neurology

Credits Hours
8

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M-2 Term.

Course Description
The neurology clerkship combines clinical neuroscience with neurologic history and examination to enable students to formulate differential diagnosis and treatment plans for common neurologic disorders.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDC7830 - Core Clerkship in Psychiatry

**Course Title**
Core Clerkship in Psychiatry

**Credits Hours**
8

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M-2 Term.

**Course Description**
Students will participate in patient assessment and treatment, with an emphasis on the most common psychiatric disorders and recognition of cases needing specialty psychiatric referral.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

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MDE - Medical Electives

MDE6171 - Core Clinical Rotation - Pediatric Genetics

**Course Title**
Core Clinical Rotation - Pediatric Genetics

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Matriculation into the M.S. Genetic Counseling Program.

**Course Description**
This course is for students to have clinical experience in Pediatric Genetic Counseling.

**College**
College of Medicine

**Department**
Clinical Sciences

**Terms of Offering**
Every Semester
MDE6172 - Core Clinical Rotation - Adult Oncology Genetics

Course Title
Core Clinical Rotation - Adult Oncology Genetics

Credits Hours
1

Lab/Studio/Field Work Hours
0

Course Description
Matriculation into the M.S. Genetic Counseling Program. This course is for students to have clinical experience in Pre-natal Genetic Counseling.

College
College of Medicine

Department
Clinical Sciences

Terms of Offering
Every Semester

MDE7230 - Special Topics in Internal Medicine

Course Title
Special Topics in Internal Medicine

Credits Hours
6

Lab/Studio/Field Work Hours
10

Prerequisites
- MDC 7200.

Course Description
Clinical 4 week elective for M3 students who want additional experience in Inpatient Internal Medicine.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional
MDE7257 - Dermatology Elective

Course Title
Dermatology Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M2 year.

Corequisites
- Must be concurrently enrolled in MDC 7600.

Course Description
M3 elective in busy dermatology practice, with exposure to many common dermatologic conditions and treatments.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional

MDE7340 - Care of the Critically Ill Patient: Theory and Practice

Course Title
Care of the Critically Ill Patient: Theory and Practice

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M2 year.

Corequisites
- Must be concurrently enrolled in MDC 7600.

Course Description
Students will learn from ICU patients about the management of critical illness including aggressive life-extending therapy and setting goals of care.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional
MDE7690 - Orthopedic Spine Surgery Elective

**Course Title**
Orthopedic Spine Surgery Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of the M2 year.

**Corequisites**
- MDC 7600.

**Course Description**
M3 students will get a brief sense of the outpatient (and possibly inpatient) practice of orthopedics and spine surgery.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Spring
Fall

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MDE7703 - Anesthesiology Elective

**Course Title**
Anesthesiology Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of the M2 year.

**Corequisites**
- Must be concurrently enrolled in MDC 7600.

**Course Description**
The basics of anesthesiology, clinical and technical skills and professional attitudes will be taught so that students may gain exposure and proficiency to transition into an anesthesiology residency program.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Spring
Fall
MDE7716 - Emergency Medicine Elective

**Course Title**
Emergency Medicine Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of the M2 year.

**Corequisites**
- Must be concurrently enrolled in MDC 7600.

**Course Description**
This M3 elective rotation will give students interested in pursuing a career in Emergency Medicine an excellent exposure to the breadth of this specialty's clinical practice.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Spring

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MDE8040 - Medical Spanish Elective

**Course Title**
Medical Spanish Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- At least two years of high school Spanish or equivalent language exposure.

**Course Description**
Designed for medical students with at least basic Spanish knowledge to improve their understanding of medical Spanish.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDE8048 - Narrative Medicine

**Course Title**
Narrative Medicine

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of the M3 year.

**Course Description**
This elective introduces fourth year medical students to the nationally recognized field of Narrative Medicine and teaches them to apply concepts of attention, representation and affiliation to patient and self care.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

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MDE8064 - Ward Ethics Elective

**Course Title**
Ward Ethics Elective

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of M3 year, C.I.

**Course Description**
Provide medical students with a learning platform to identify, reflect, discuss, and prepare for everyday ward ethical challenges in their clerkship and residencies.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Spring
Fall
MDE8072 - International Elective

Course Title
International Elective

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
Jan-99

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Students interested in completing an elective outside the U.S. should contact the Office of Student Affairs. Additional information may be available from Director of International Health Programs. Student must arrange approval process early in the third year.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8081 - Telemedicine Elective

Course Title
Telemedicine Elective

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M3 year.

Course Description
This is an introductory course to familiarize students with key concepts, competencies, and applications of Telemedicine.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional
MDE8082 - Teleurgent Care Elective

**Course Title**
Teleurgent Care Elective

**Credits Hours**
3 - 6

**Lab/Studio/Field Work Hours**
5-Feb

**Prerequisites**
- Completion of the M2 year.

**Course Description**
This is an introductory course to introduce students with key concept, competencies, and application of Teleurgent Care.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Occasional

MDE8092 - MedEd Instructional Materials Development: Moving Beyond the PowerPoint

**Course Title**
MedEd Instructional Materials Development: Moving Beyond the PowerPoint

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of the M2 year.

**Course Description**
This course introduces students to basic principles of instructional design and pedagogy.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Occasional
MDE8093 - Clinical Anatomy Teaching Elective

Course Title
Clinical Anatomy Teaching Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
M4 medical students can participate as teaching assistants in the human anatomy laboratory component of the UCF COM HB-2 module.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8094 - Simulation in Medical Education Elective

Course Title
Simulation in Medical Education Elective

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
After reviewing current trends, literature and methodologies in medical simulation, learners will design and deliver one complete scenario to their peers in a simulated clinical setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional
MDE8095 - Integrative Reproductive Medicine E-text Development

Course Title
Integrative Reproductive Medicine E-text Development

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
Completion of M3 Core Clerkships.

Course Description
Students will design a series of short interactive e-modules for preclinical students on a subject in reproductive medicine. Elective includes training in educational technology.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8097 - WikiProject Medicine: A Medical Informatics Elective for Enhancing the Quality of Patient Education

Course Title
WikiProject Medicine: A Medical Informatics Elective for Enhancing the Quality of Patient Education

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
Completion of M3 clerkships.

Course Description
This course enables students to improve and enrich the quality of reliable information read by patients on Wikipedia by becoming a WikiProject Medicine Editor.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8099 - Evidence Based Medical Education: Shaping the Education of Future Physicians

**Course Title**
Evidence Based Medical Education: Shaping the Education of Future Physicians

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of the M2 year.

**Course Description**
Participants examine learning experience through the lens of evidence-based practice, and established models of human learning and instructional design.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Fall

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MDE8105 - Culinary Medicine Elective

**Course Title**
Culinary Medicine Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Course Description**
Completion of the M3 year. Culinary Medicine is a unique approach to nutrition education that integrates medical nutrition therapy principles with culinary medicine techniques. The goal is to teach patients what to eat and how to deliciously prepare meals in their own home kitchens.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
**Course Title**

Elective in Reproductive Endocrinology and Infertility

**Credits Hours**

6

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Successful completion of M3 core clerkships.

**Course Description**

Experience evaluating new and returning patients in REI clinic: participation in preoperative, operative and inpatient postoperative care, advanced gynecologic ultrasonography, and IVG services.

**College**

College of Medicine

**Department**

College of Medicine MD Program

**Terms of Offering**

Every Semester

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**MDE8127 - Lifestyle Modification Skills in Practice**

**Course Title**

Lifestyle Modification Skills in Practice

**Credits Hours**

3 - 6

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Completion of the M2 year.

**Course Description**

This elective will provide hands on practice with patients taking detailed lifestyle assessments and coaching patients to achieve beneficial lifestyle changes and also by helping run group visits.

**College**

College of Medicine

**Department**

College of Medicine MD Program

**Terms of Offering**

Spring
MDE8147 - Geriatric Elective

Course Title
Geriatric Elective

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
Students will select one of two experiences based on their goals. The menu of options will include either a geriatric primary care clinic, including home visits within an upscale retirement complex, or an academic geriatric/pharmacological experience.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
Fall
Odd Summer

MDE8150 - Hospice and Palliative Care Rotation

Course Title
Hospice and Palliative Care Rotation

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
This two or four week rotation will provide students with extensive exposure to palliative and end of life care.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8152 - Palliative and Pain Management Principles

Course Title
Palliative and Pain Management Principles

Credits Hours
3 - 6

Lab/Studio/Field Work Hours
0

Prerequisites
- MDC 7200.

Course Description
This non-clinical elective covers the key principles of palliative care and pain management.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Fall

MDE8160 - Obstetrics and Gynecology Ambulatory Elective

Course Title
Obstetrics and Gynecology Ambulatory Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
The Ob/Gyn Ambulatory elective is available to 4th year medical students to acquire a comprehensive experience in obstetrics and gynecology. The experience will be both outpatient and inpatient and include participation in all aspects of care for women. The student will participate in obstetric and gynecologic consultations, attending outpatient clinics, assisting in the operating room with obstetric and gynecologic cases, and participating in pre-op and post-op care.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8162 - Gynecologic Oncology Elective

Course Title
Gynecologic Oncology Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
The student works with two experienced educators on a busy service. There is a large volume of tumor/cancer cases (robotic, laparoscopic, open, perineal).

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
Fall

MDE8165 - Elective in Gynecology

Course Title
Elective in Gynecology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
The Gynecology elective is available to 4th year medical students to acquire a comprehensive experience with commonly treated gynecologic issues for women. The experience will include performing inpatient and emergency gynecologic consultations, attending outpatient clinics, assisting in the operating room with gynecologic cases and participating in following gynecologic patients with breast disorders in the breast clinic.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8182 - Advanced Prenatal Diagnosis Clinic

Course Title
Advanced Prenatal Diagnosis Clinic

Credits Hours
6

Lab/Studio/Field Work Hours
6

Prerequisites
- Completion of the M3 year.

Course Description
This 4 week elective will offer medical students insight into the specialty of Maternal-Fetal Medicine and Genetics Counseling.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional

MDE8205 - Elective in Ambulatory Internal Medicine

Course Title
Elective in Ambulatory Internal Medicine

Credits Hours
3 - 6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
This 2 or 4 week experience will provide advanced clinical training in the care of patients age 16 and older in an ambulatory clinic setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Fall
MDE8209 - Nanomedicine Elective

**Course Title**
Nanomedicine Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of M3 year.

**Course Description**
Introduces students to nanomedicine as a branch of medicine that applies the knowledge and tools of nanotechnology to the disease screening, diagnosis, treatment, and prevention.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Fall

MDE8210 - Advanced Physiology of the Critically Ill Patient

**Course Title**
Advanced Physiology of the Critically Ill Patient

**Credits Hours**
3 - 6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of the M2 year.

**Course Description**
This online course offers advanced integration of advanced physiology and ICU cases in online meetings with physiologists and intensivists to do case evaluation and working through mechanism of disease analyses.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Summer
MDE8220 - Clinical Cardiology Elective

Course Title
Clinical Cardiology Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Course Description
Completion of the M3 year. Clinical rotation in cardiology with emphasis on gaining basic knowledge in diagnosis and management of common cardiovascular conditions.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
Fall

MDE8222 - Ambulatory Elective in Cardiology

Course Title
Ambulatory Elective in Cardiology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
The four week 4th year elective experience will provide advanced clinical training in the outpatient care of adult cardiology patients in the outpatient setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8223 - Cardiology-Inpatient/Outpatient

**Course Title**
Cardiology-Inpatient/Outpatient

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
The student will develop an understanding of the pathophysiology and cardiovascular disease and learn an approach to the evaluation and treatment of patients with cardiovascular disease.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

MDE8225 - Congenital Cardiology

**Course Title**
Congenital Cardiology

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
In-depth exposure to pediatric cardiology including patients with congenital heart disease in the inpatient, outpatient, CVICU, and operative room settings.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDE8226 - Clinical Cardiac Electrophysiology Elective

Course Title
Clinical Cardiac Electrophysiology Elective

Credits Hours
3 - 6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
The student will gain an in-depth understanding of advanced medical and surgical management of cardiac rhythm disorders.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional

MDE8227 - Advanced ECG Self-Study Elective

Course Title
Advanced ECG Self-Study Elective

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Completion of the M3 year. Students will engage in a 2 week intense ECG self-study review with weekly meeting sessions.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8245 - Pulmonary Elective

Course Title
Pulmonary Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Inpatient and outpatient management of pulmonary diseases and sleep disorders.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8250 - Dermatology Elective

Course Title
Dermatology Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
The student will be exposed to almost all aspects of diagnosis and treatment within dermatology (pediatrics to geriatric), surgical dermatology (routine, Moh's, laser), cosmetic dermatology (lasers, fillers, cosmetic surgery, hair transplantation, aesthetic services and dermatopathology).

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8254 - Advanced Dermatology Elective

Course Title
Advanced Dermatology Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships and satisfactory completion of Dermatology elective.

Course Description
This elective will expose the student to almost all aspects of diagnosis and treatment within general dermatology and provide additional opportunities in research and office management.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8256 - Trichology

Course Title
Trichology

Credits Hours
3 - 6

Prerequisites
- Completion of the M3 year.

Course Description
In-office rotation. Clinical diagnosis and clinical/surgical treatment of various hair disorders.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional
MDE8270 - Gastroenterology Inpatient/Outpatient

**Course Title**
Gastroenterology Inpatient/Outpatient

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
The student will develop an understanding of the pathophysiology of gastrointestinal disease and learn an approach to the evaluation and treatment of patients with gastrointestinal disease.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

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MDE8280 - Hematology/Oncology Inpatient/Outpatient

**Course Title**
Hematology/Oncology Inpatient/Outpatient

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
This course provides an in-depth exposure to the diagnosis and treatment of hematologic disease and malignancy in the hospital and outpatient setting.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDE8281 - Ambulatory Elective in Hematology/Oncology

**Course Title**
Ambulatory Elective in Hematology/Oncology

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
This four week experience will provide advanced clinical training in the outpatient care of adult hematology/oncology patients in the outpatient setting.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

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MDE8285 - Diagnostic Hematology

**Course Title**
Diagnostic Hematology

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
The student will be working closely with the hematopathologist, immunopathologist, clinical hematologists, senior residents and supervisors of the hematology section; he/she will both observe and participate in the usual studies performed in these areas.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDE8310 - Ambulatory Elective in Rheumatology

Course Title
Ambulatory Elective in Rheumatology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 clerkships.

Course Description
This four week experience will provide advanced clinical training in the outpatient care of adult rheumatology patients in the outpatient setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8320 - Infectious Diseases-Inpatient/Outpatient

Course Title
Infectious Diseases-Inpatient/Outpatient

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
This course provides an in-depth exposure to the diagnosis and treatment of infectious diseases in the hospital and outpatient setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8341 - Internal Medicine/Critical Care Medicine Elective

Course Title
Internal Medicine/Critical Care Medicine Elective

Credits Hours
3 - 6

Prerequisites
- Completion of the M3 year.

Course Description
Rotation includes teaching of mechanical ventilation, ACLS, dialysis, bedside ultrasounds, vasopressors, antibiotics, and other subjects relevant to practice of critical care medicine.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional

MDE8342 - Surgical Critical Care

Course Title
Surgical Critical Care

Credits Hours
6

Lab/Studio/Field Work Hours
10

Prerequisites
- Completion of the M3 year.

Course Description
Expose students to acute and daily management of surgical critical care patients.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional
MDE8345 - Wound Care

Course Title
Wound Care

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 clerkships.

Course Description
Provides an in-depth exposure to the patient with open wounds, precursor and follow-up of healed wounds.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8350 - Nephrology Inpatient/Outpatient

Course Title
Nephrology Inpatient/Outpatient

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
This course provides an in-depth exposure to the diagnosis and treatment of renal disease in the hospital and outpatient setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8351 - Ambulatory Elective in Nephrology

**Course Title**
Ambulatory Elective in Nephrology

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 clerkships.

**Course Description**
This four week experience will provide advanced clinical training in the outpatient care of adult nephrology patients in the outpatient setting.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

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MDE8362 - Clinical Pharmacology Elective

**Course Title**
Clinical Pharmacology Elective

**Credits Hours**
3 - 6

**Prerequisites**
- Completion of the M3 year.

**Course Description**
This course will offer exposure to inpatient pediatric and women's health pharmacology with a focus on basic pharmacology concepts and opportunities for self-directed learning.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Occasional
MDE8364 - Insights into the Medication Use Process

Course Title
Insights into the Medication Use Process

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M2 year.

Course Description
Explore the medication use process (prescribing, transcribing/documenting, dispensing, administering, and monitoring) using a variety of virtual learning platforms.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Fall

MDE8370 - Essentials of Musculoskeletal Care Elective

Course Title
Essentials of Musculoskeletal Care Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M3 year.

Course Description
The elective will provide students opportunity to learn initial evaluation, work-up and conservative treatment of various musculoskeletal complaints.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
MDE8404 - Ambulatory Pediatrics Elective

Course Title
Ambulatory Pediatrics Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
This elective is designed to acquaint the student with the management of acute pediatric illness in an outpatient setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8409 - General Outpatient Pediatrics Clinic

Course Title
General Outpatient Pediatrics Clinic

Credits Hours
3 - 6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M3 year.

Course Description
This rotation will give the student a broad exposure to general pediatrics focusing on outpatient primary care.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional
**MDE8410 - Adolescent Medicine Elective**  
**Course Title**  
Adolescent Medicine Elective  

**Credits Hours**  
6  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Successful completion of M3 core clerkships.  

**Course Description**  
This elective is designed to acquaint the student with the fundamentals of adolescent medicine by providing outpatient, community based exposure to the care of adolescents.  

**College**  
College of Medicine  

**Department**  
College of Medicine MD Program  

**Terms of Offering**  
Every Semester  

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**MDE8412 - Pediatric Telehealth Elective**  
**Course Title**  
Pediatric Telehealth Elective  

**Credits Hours**  
3 - 6  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Completion of M3 year.  

**Course Description**  
This elective will provide a broad learning experience in telehealth.  

**College**  
College of Medicine  

**Department**  
College of Medicine MD Program  

**Terms of Offering**  
Occasional
MDE8415 - Developmental/Behavioral Pediatric Medicine

Course Title
Developmental/Behavioral Pediatric Medicine

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
This program emphasizes the use of multiple disciplines and community resources that specialize in developmental issues.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8420 - Pediatric Cardiology

Course Title
Pediatric Cardiology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
This clinical rotation will introduce the student to the outpatient pediatric cardiology practice with the goals of developing basic cardiology skills such as data collection and clinical examination. EKG interpretation, basic echocardiography, basic catheterization will be introduced.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8425 - Pediatric Pulmonary Elective

Course Title
Pediatric Pulmonary Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
This clinical course will be based on basic respiratory physiology and will include a variety of clinical pulmonary experiences and diseases.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8430 - Pediatric Endocrinology Elective

Course Title
Pediatric Endocrinology Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 clerkships.

Course Description
Provide in-depth exposure and experience in the diagnosis and treatment of endocrine disorders with a focus on the multidisciplinary care of the diabetic child; also, growth disorders, disorders of puberty and obesity, and its complications.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8433 - Pediatric Gastroenterology Elective  
**Course Title**  
Pediatric Gastroenterology Elective  

**Credits Hours**  
6  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Successful completion of M3 core clerkships.  

**Course Description**  
Students will be exposed to a wide spectrum of pediatric gastrointestinal and liver diseases.  

**College**  
College of Medicine  

**Department**  
College of Medicine MD Program  

**Terms of Offering**  
Every Semester

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MDE8440 - Pediatrics Hematology/Oncology  
**Course Title**  
Pediatrics Hematology/Oncology  

**Credits Hours**  
6  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Successful completion of M3 core clerkships.  

**Course Description**  
Pediatrics hematology and oncology including bone marrow transplant.  

**College**  
College of Medicine  

**Department**  
College of Medicine MD Program  

**Terms of Offering**  
Every Semester
**MDE8445 - Pediatric Nephrology Elective**

**Course Title**
Pediatric Nephrology Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
This rotation is designed to familiarize the student with the wide range of pediatric kidney diseases encountered in the ICU, inpatient service and outpatient departments.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

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**MDE8454 - Pediatric Infectious Diseases**

**Course Title**
Pediatric Infectious Diseases

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
Introduction to the clinical aspects of the diagnosis and treatment of infectious diseases in children.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDE8465 - Pediatric Critical Care and ICU Elective

Course Title
Pediatric Critical Care and ICU Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
This course is designed to give students the experience of caring for critically ill patients ranging from infancy through adolescence in the ICU/SCU setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8466 - Acting Internship in General Outpatient Pediatrics with Nursery

Course Title
Acting Internship in General Outpatient Pediatrics with Nursery

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M3 year.

Course Description
Daily rounding in Level I nursery and outpatient general pediatrics.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional
MDE8480 - Special Topics in Pediatric Ophthalmology
Course Title
Special Topics in Pediatric Ophthalmology
Credits Hours
6
Lab/Studio/Field Work Hours
6
Prerequisites
- Completion of the M2 Year.
Course Description
This course provides advanced clinical training in pediatric ophthalmology.
College
College of Medicine
Department
College of Medicine MD Program
Terms of Offering
Occasional

MDE8485 - Pediatrics Orthopaedics Elective
Course Title
Pediatrics Orthopaedics Elective
Credits Hours
6
Lab/Studio/Field Work Hours
0
Prerequisites
- Successful completion of M3 core clerkships.
Course Description
This rotation will expose the student to a wide variety of pediatrics orthopaedic problems affecting the growing musculoskeletal system.
College
College of Medicine
Department
College of Medicine MD Program
Terms of Offering
Every Semester
MDE8490 - Pediatric Surgery Selective and Elective

Course Title
Pediatric Surgery Selective and Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Participates in outpatient, inpatient and intra-operative treatment of children.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8491 - Pediatric Neurosurgery

Course Title
Pediatric Neurosurgery

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
An introduction to Pediatric Neurosurgery.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8500 - Pediatric Dermatology

Course Title
Pediatric Dermatology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Overview of pediatric dermatology including common skin dermatoses, birthmarks, genodermatoses in both outpatient and inpatient setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8505 - Pediatrics Emergency Medicine

Course Title
Pediatrics Emergency Medicine

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M3 Core Clerkships.

Course Description
This elective will provide students with experience assessing and caring for children in a Pediatrics Emergency Department that provides emergent and urgent care to patients aged 0-17 years old, including pregnant adolescent patients in their first trimester. Students will be exposed to a wide variety of illnesses and injuries, including critical illnesses, and primary care diagnoses. Supervision will be provided by attending physicians in Pediatrics, Emergency Medicine or Pediatrics Emergency Medicine. Students will perform an initial rapid assessment followed by a thorough history and physical examination, and then generate a differential diagnoses and preliminary management plan. All management decisions will be discussed with a senior resident or attending physician.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8511 - Pediatric Anesthesia Elective

Course Title
Pediatric Anesthesia Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
This two- or four-week elective rotation, open to fourth year medical students, will provide a broad learning experience in pediatric anesthesiology.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8512 - Pediatric/Adolescent Gynecology Elective

Course Title
Pediatric/Adolescent Gynecology Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Course Description
Completion of the M3 year. The pediatric and adolescent gynecology elective is designed to expose medical students to the full spectrum of gynecologic services for the pediatric and adolescent population while remaining within a developmentally appropriate, supportive environment. Students will also participate in the surgical management of endometriosis and ovarian cysts.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8520 - Advanced Clinical Anatomy

Course Title
Advanced Clinical Anatomy

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Student will plan and implement a program to study and demonstrate the anatomy, current literature and surgical approaches related to a contract agreed upon by student and elective supervisor at the start of the elective.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8530 - Pathology and Laboratory Medicine

Course Title
Pathology and Laboratory Medicine

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Provides introduction to all areas of pathology practice with emphasis on anatomic pathology disciplines.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8532 - Clinical Pathology Methods and Interpretation

Course Title
Clinical Pathology Methods and Interpretation

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
The course is designed to acquaint the student with all aspects of a large hospital clinical laboratory. The student will learn the capabilities of the laboratory by rotating through hematology, immunology, chemistry and microbiology.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8534 - Surgical Pathology

Course Title
Surgical Pathology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
The course is designed to provide the student with the opportunity for surgical specimen preparation and interpretation. Emphasis is placed on normal gross and histologic findings, gross and microscopic pathology and clinicopathologic correlation of the patient's disease process.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8535 - Autopsy Pathology

Course Title
Autopsy Pathology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Provide the student with the opportunity for in-depth study and performance of complete autopsies.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8550 - Clinical Ophthalmology Elective

Course Title
Clinical Ophthalmology Elective

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
An eye clinic based experience where students will master ophthalmoscopy, ophthalmic examination skills, and participate in general and specialty eye surgery and clinics.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8555 - Special Topics in Ophthalmology

**Course Title**
Special Topics in Ophthalmology

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of the M2 year.

**Course Description**
This course will provide advanced clinical training for students with an interest in ophthalmology.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Occasional

MDE8582 - Physical Medicine and Rehabilitation Elective - Physiatry

**Course Title**
Physical Medicine and Rehabilitation Elective - Physiatry

**Credits Hours**
3 - 6

**Lab/Studio/Field Work Hours**
12-Sep

**Prerequisites**
- Completion of the M3 year.

**Course Description**
Provide medical students a broad exposure to the field of physical medicine and rehabilitation.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Spring
MDE8591 - Pediatric Maxillofacial and Craniofacial Surgery Elective

Course Title
Pediatric Maxillofacial and Craniofacial Surgery Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
This course is designed to provide trainees with expanded clinical training in the areas of cleft, craniofacial and pediatric oral and maxillofacial surgery.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8592 - Pediatric Otolaryngology Elective

Course Title
Pediatric Otolaryngology Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
This rotation will allow students interested in pediatric primary care to spend time with our busy service learning about medical and surgical care of common pediatric head and neck, upper airway, and otologic conditions of children. This will take place in the inpatient/outpatient/operating room settings.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
Fall
**MDE8603 - Elective in Orthopaedic Patient Care and Surgical Techniques**

**Course Title**
Elective in Orthopaedic Patient Care and Surgical Techniques

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of the M3 year.

**Course Description**
M4 students will be exposed to the daily interactions with patients needing musculoskeletal care, medical evaluations, review of history, care options and surgical techniques. All patients are sports medicine related injuries. Students will get exposure to orthopedic sports medicine injuries and arthritic condition of the lower extremity.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Spring
Fall

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**MDE8605 - Vascular Surgery Elective**

**Course Title**
Vascular Surgery Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of M3 academic year.

**Course Description**
Student will actively participate in clinical care of vascular surgery patients including operating rooms. Student may present cases at conference.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDE8606 - Introduction to the Ambulatory Surgical Center

Course Title
Introduction to the Ambulatory Surgical Center

Credits Hours
3 - 6

Prerequisites
◆ Completion of the M3 year.

Course Description
This course will introduce the medical student to health care delivery in an ambulatory surgical setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
Fall

MDE8607 - Non-Clinical Advanced Surgery Elective

Course Title
Non-Clinical Advanced Surgery Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
◆ Completion of the M2 year.

Course Description
Remote surgery elective comprised of operative videos, independent study, and web-based meetings, encompassing the core competencies of surgery and elective material in a sub-specialty.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Summer
Spring
MDE8660 - Plastic Surgery Elective

**Course Title**
Plastic Surgery Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
6

**Course Description**
This rotation has been designed to expose the 4th year medical student to the diversity of plastic surgery, by having him/her work with several UCF College of Medicine plastic surgeons whose interests and practice patterns vary.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

MDE8663 - Aesthetic Plastic Surgery

**Course Title**
Aesthetic Plastic Surgery

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
6

**Course Description**
Rotation providing a focused learning experience in aesthetic surgery; students with interest in facial reconstruction may elect to take call or become involved in complex facial trauma reconstruction at the regional trauma center.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDE8675 - Urology Elective

Course Title
Urology Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M3.

Course Description
Completion of M3. Elective in clinical urology with a focus on inpatient, outpatient and surgical aspects of urology.

College
College of Medicine

Department
College of Medicine MD Program

MDE8676 - Colon and Rectal Surgery Elective

Course Title
Colon and Rectal Surgery Elective

Credits Hours
6

Lab/Studio/Field Work Hours
6

Prerequisites
- Completion of the M3 clerkships.

Course Description
This rotation will include workup, diagnosis, and treatment/follow up of surgical diseases involving the colon, rectum, and anus in both inpatient and outpatient settings.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional
MDE8682 - Introduction to Trauma and Surgical Critical Care Elective

Course Title
Introduction to Trauma and Surgical Critical Care Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Course Description
Completion of M3 year. This course will expose students to the multidisciplinary nature of modern trauma care while providing ample opportunity to learn and understand core principles of trauma, critical care, and emergency general surgery.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8683 - Trauma and Orthopaedics Elective

Course Title
Trauma and Orthopaedics Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
The course is designed to present to the student the basic aspects of orthopaedic care.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
**MDE8691 - Intro to Ortho Surgery and Musculoskeletal Care**

**Course Title**
Intro to Ortho Surgery and Musculoskeletal Care

**Credits Hours**
3 - 6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of the M3 year.

**Course Description**
The student will be exposed to a wide variety of musculoskeletal issues both acute and chronic. They will improve their physical diagnosis skills, learn the use of appropriate imaging options, and be involved in formulating a treatment plan and go to surgery with preceptor.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Occasional

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**MDE8702 - Anesthesia Elective at VA**

**Course Title**
Anesthesia Elective at VA

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Course Description**
Completion of M3. Medical students will learn the multi-faceted role anesthesiologists play in medicine as perioperative physicians and pain management specialists.

**College**
College of Medicine

**Department**
College of Medicine MD Program
MDE8710 - Emergency Medicine Elective

Course Title
Emergency Medicine Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M3 Core Clerkships.

Course Description
This course allows students with interest in EM to fully explore the reality of being an Emergency Physician within a busy Emergency Department. There will be opportunity to participate in the management of all ED patients from the critically ill to the minor complaints.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8763 - Diagnostic Radiology Clerkship

Course Title
Diagnostic Radiology Clerkship

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M3 Core Clerkships.

Course Description
In-depth exposure to diagnostic radiology.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8765 - Diagnostic and Interventional Radiology Elective

Course Title
Diagnostic and Interventional Radiology Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
A fourth-year elective for eligible medical students in diagnostic and interventional radiology.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8767 - Neuro-Radiology

Course Title
Neuro-Radiology

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Evaluation and interpretation of modalities used to image the central nervous system.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8769 - Pediatric Radiology Elective

Course Title
Pediatric Radiology Elective

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Provides an in-depth exposure and experience in pediatric radiology.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8773 - Emergency Ultrasound Elective

Course Title
Emergency Ultrasound Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 academic year.

Course Description
This elective is intended to help integrate knowledge, skill and experience to perform and interpret ultrasound imaging at the patient's bedside.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8775 - Pediatric Ultrasound Elective

Course Title
Pediatric Ultrasound Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
This two or four-week elective rotation, open to fourth-year medical students, will provide a broad learning experience in pediatric ultrasound.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8780 - Radiation Oncology Elective

Course Title
Radiation Oncology Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Course Description
Completion of M3 core clerkships. This clinical rotation will involve exploring the field of radiation oncology through basics of cancer medicine, diagnosis of strategy and treatment of cancer, and radiation physics.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8790 - Special topics in Anesthesiology

**Course Title**
Special topics in Anesthesiology

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Course Description**
This elective provides M3 and M4 medical students with advanced clinical training in anesthesiology.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Occasional

MDE8820 - Interventional Pain Management Elective

**Course Title**
Interventional Pain Management Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of M3 year.

**Course Description**
Four-week elective rotation providing clinical experience in an outpatient setting in the field of interventional medicine.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Spring
Fall
MDE8823 - Outpatient Pain Management and Neurology Elective

Course Title
Outpatient Pain Management and Neurology Elective

Credits Hours
3 - 6

Prerequisites
- Completion of the M3 year.

Course Description
M4 students will learn non-opioid options for chronic pain management, as well as appropriately prescribing controlled medications when necessary.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional

MDE8831 - Outpatient Psychiatry Elective

Course Title
Outpatient Psychiatry Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M2 year. Completion of the Core Clerkship in Psychiatry.

Course Description
Students will be given progressive clinical responsibilities in the assessment and treatment of psychiatric patients.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional
MDE8835 - M4 Acting Internship Psychiatry VA Residential Care at Domiciliary

Course Title
M4 Acting Internship Psychiatry VA Residential Care at Domiciliary

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Responsibility for clinical assessment and treatment planning for residential care patients with special emphasis on substance related disorders and PTSD at VA Medical Center Domiciliary.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDE8836 - Psychiatry Elective

Course Title
Psychiatry Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Course Description
Completion of M3 academic year and instructor consent. Responsibility for clinical assessment and treatment planning for residential care patients.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
**MDE8844 - Post-Traumatic Stress Disorder Clinic**

**Course Title**
Post-Traumatic Stress Disorder Clinic

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Course Description**
Completion of the M3 academic year; Instructor consent; UCF COM students only. Participate in the assessment and treatment of patients with combat-related post-traumatic stress disorder. Experiences may include diagnostic assessments, assisting in conducting individual and group treatments and participating in ongoing research protocols.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

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**MDE8873 - Child and Adolescent Psychiatry - Outpatient Elective**

**Course Title**
Child and Adolescent Psychiatry - Outpatient Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
6

**Prerequisites**
- Completion of the M3 year.

**Course Description**
M4 students will be given progressive clinical responsibilities in the assessment and treatment of patients at Orange Psychiatric Associates.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Fall
MDE8890 - Academic Psychiatry Elective

Course Title
Academic Psychiatry Elective

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
In this elective, students will develop a scholarly project, do clinical and classroom teaching of junior medical students, and help deliver resident as teacher didactics to residents.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Spring
Fall

MDE8891 - Special Topics in Psychiatry

Course Title
Special Topics in Psychiatry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M2 year. Completion of MDC 7830 Core Clerkship in Psychiatry.

Course Description
This elective allows for advanced clinical training in Psychiatry in both inpatient and outpatient settings.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional
MDE8892 - Special Topics in Neurology

Course Title
Special Topics in Neurology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Course Description
This rotation allows M3 and M4 student to gain advanced clinical experience in neurology.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional

MDE8900 - Directed Study/Independent Study

Course Title
Directed Study/Independent Study

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
Jan-99

Prerequisites
Prior approval required.

Course Description
Individual study by students under the direction of a faculty member and with the approval of the Assistant Dean of Medical Education and the Associate Dean of Students. Topics vary and will be selected on an individual basis. Credit hours and student level may vary.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDE8910 - Medical Externship in Interdisciplinary Research

Course Title
Medical Externship in Interdisciplinary Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M1 year.

Course Description
This flexible research externship will provide opportunities for M1-M4 medical students to refine research skills for special projects/patents as well as preparation for residency match.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDI - Medical Internships

MDI8120 - Acting Internship in Family Medicine

Course Title
Acting Internship in Family Medicine

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 clerkships.

Course Description
This four week experience will provide advanced clinical training in the care of patients of all ages in the hospital and clinic settings.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDI8160 - Acting Internship in Obstetrics and Gynecology

Course Title
Acting Internship in Obstetrics and Gynecology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Course Description
Completion of Core Clerkship in Obstetrics and Gynecology. Experience comparable to a month of obstetrics and gynecology internship, during which the student will function as an intern under the supervision of the senior resident/s and attending physician.

College
College of Medicine

Department
College of Medicine MD Program

MDI8164 - Acting Internship in Gynecologic Oncology

Course Title
Acting Internship in Gynecologic Oncology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Provides an in-depth exposure and experience in gynecologic oncology.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDI8247 - AI in Medicine Critical Care and Pulmonary Diseases

**Course Title**
AI in Medicine Critical Care and Pulmonary Diseases

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of M3.

**Course Description**
Immerses the student in the care of MICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

MDI8300 - Acting Internship in Allergy/Asthma/Immunology

**Course Title**
Acting Internship in Allergy/Asthma/Immunology

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Course Description**
Completion of the M3 year. The student will see patients with allergy disorders in the outpatient setting.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDI8340 - Acting Internship in Internal Medicine Acute Care

Course Title
Acting Internship in Internal Medicine Acute Care

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
This four week experience will provide advanced clinical training in the care of acutely ill hospitalized adult medical patients.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDI8343 - Acting Internship in Surgery Critical Care

Course Title
Acting Internship in Surgery Critical Care

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M3.

Course Description
Immerses the student in the care of SICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDI8344 - Acting Internship in Medicine Critical Care

**Course Title**
Acting Internship in Medicine Critical Care

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Course Description**
Completion of M3. Immerses the student in the care of MICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

MDI8400 - Acting Internship in General Pediatrics Inpatient

**Course Title**
Acting Internship in General Pediatrics Inpatient

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
This elective is designed to acquaint the student with the management of acute pediatric illness in the hospital setting.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDI8461 - Acting Internship in Neonatal ICU

Course Title
Acting Internship in Neonatal ICU

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M3.

Course Description
This acting internship is designed to expose the student to normal physiology and a wide variety of diseases that affect the term and preterm newborn.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDI8463 - Acting Internship in Pediatric Critical Care

Course Title
Acting Internship in Pediatric Critical Care

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of M3.

Course Description
Immerses the student in the care of PICU patients by focusing on technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDI8470 - Acting Internship in Pediatric Neurology/Epilepsy

Course Title
Acting Internship in Pediatric Neurology/Epilepsy

Credits Hours
6

Lab/Studio/Field Work Hours
0

Course Description
Completion of Core Clerkship in Neurology. C.I. Evaluate treatment of inpatient and outpatient Pediatric Neurology patients, with exposure to acutely ill patients in ICU to evaluations of Epilepsy/Seizures, Movement Disorders and Headache.

College
College of Medicine

Department
College of Medicine MD Program

MDI8490 - Acting Internship Pediatric Surgery

Course Title
Acting Internship Pediatric Surgery

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
The fourth year medical student on Pediatric Surgery (AI) will build upon their surgical clerkship experience with exposure to the workup, diagnosis and treatment/follow-up of surgical diseases involving neonates, infants and children in both the inpatient and outpatient setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDI8555 - Acting Internship in Clinical Ophthalmology

Course Title
Acting Internship in Clinical Ophthalmology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
 Completion of M3 year.

Course Description
This rotation will provide greater exposure to diagnosis, management, and surgical treatment of clinical ophthalmology cases encompassing cornea, retina, glaucoma, and oculoplastic and reconstructive surgery.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Summer

MDI8570 - Acting Internship in Pediatric Orthopedic Surgery

Course Title
Acting Internship in Pediatric Orthopedic Surgery

Credits Hours
6

Lab/Studio/Field Work Hours
0

Course Description
Completion of M3 academic year. The student in AI Pediatric Orthopedic Surgery will be focused on the orthopedic surgical care of children. He/she will lead the orthopedic surgical service in the outpatient and inpatient setting.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDI8571 - Acting Internship in Adult Orthopaedic Surgery

**Course Title**
Acting Internship in Adult Orthopaedic Surgery

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of the M3 year

**Course Description**
This fourth year medical student rotation is structured to develop clinical skills in the six ACGME competencies as they apply to adult orthopaedic surgical care.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

MDI8600 - Acting Internship in General Surgery

**Course Title**
Acting Internship in General Surgery

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
Completion of core clerkship in surgery. The fourth year medical student on the General Surgery Acting Internship will build upon the surgical core M3 rotation and further explore the workup, diagnosis and treatment/follow-up of surgical diseases in both the inpatient and outpatient setting.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDI8650 - Acting Internship in Neurosurgery

**Course Title**
Acting Internship in Neurosurgery

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Course Description**
Completion of M3. C.I. This four-week experience will provide advanced clinical training to prepare the 4th-year medical student for the rigors of surgical internship (with neurosurgical focus).

**College**
College of Medicine

**Department**
College of Medicine MD Program

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MDI8661 - Acting Internship in Oculo-Facial Plastic and Reconstructive Surgery

**Course Title**
Acting Internship in Oculo-Facial Plastic and Reconstructive Surgery

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of M3 year.

**Course Description**
This 4-week AI rotation will provide greater exposure to diagnosis, management and surgical correction of ophthalmic and reconstructive disorders.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
**MDI8676 - Acting Internship Colon and Rectal Surgery**

**Course Title**
Acting Internship Colon and Rectal Surgery

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
The fourth year medical student on the colon and rectal surgery acting internship will build upon the surgical core M3 rotation and further explore the workup, diagnosis and treatment/follow-up of surgical diseases involving the colon, rectum and anus in both the inpatient and outpatient settings.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

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**MDI8710 - Acting Internship in Emergency Medicine**

**Course Title**
Acting Internship in Emergency Medicine

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of M3 clerkships.

**Course Description**
This four-week rotation introduces the student to initial evaluation, workup, diagnostic ordering and treatment of patients presenting in the emergency department.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDI8802 - Acting Internship in Clinical Neurological Ophthalmology

Course Title
Acting Internship in Clinical Neurological Ophthalmology

Credits Hours
6

Lab/Studio/Field Work Hours
0

Course Description
Completion of the M3 year. An eye clinic based experience where students will master ophthalmoscopy, ophthalmic examination skills, and participate in general and specialty eye surgery and clinics.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDI8840 - Acting Internship in Psychiatry

Course Title
Acting Internship in Psychiatry

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Successful completion of M3 clerkships.

Course Description
Increased level of responsibility for clinical assessment and treatment planning in walk-in/triage clinic at VA. Additional responsibility for teaching third year medical students.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester
MDI8841 - Acting Internship in Consultation Liaison Psychiatry

Course Title
Acting Internship in Consultation Liaison Psychiatry

Credits Hours
6

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of the M3 year.

Course Description
As acting interns, M4 students will be given progressive clinical responsibilities in the assessment and treatment of patients hospitalized on medical and surgical wards at the Lake Nona Orlando V.A. Medical Center that have concomitant psychiatric conditions.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDI8843 - Acting Internship in Inpatient Psychiatry

Course Title
Acting Internship in Inpatient Psychiatry

Credits Hours
6

Lab/Studio/Field Work Hours
6

Prerequisites
- Completion of the M3 year.

Course Description
As acting interns, M4 students will be given progressive clinical responsibilities in the assessment and treatment of patients hospitalized on the psychiatry ward.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional

MDR - Medical Research
**MDR8250 - Dermatology Research Elective**

**Course Title**
Dermatology Research Elective

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
The student will have opportunities to work on one of several ongoing clinical research projects. In addition, the student may develop their own project or join onto an ongoing project co-sponsored through another medical school, a patient support group or a medical society.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

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**MDR8550 - Ophthalmology Research Elective**

**Course Title**
Ophthalmology Research Elective

**Credits Hours**
1 - 99

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
Students will gain exposure to clinical trials, translational research and patient care in an ophthalmology subspecialty (retina) community-based practice.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester
MDR8570 - Orthopaedic Research Elective

Course Title
Orthopaedic Research Elective

Credits Hours
6

Lab/Studio/Field Work Hours
3

Prerequisites
- Completion of the M2 year.

Course Description
This course will highlight some of the challenges, approaches, and current research in orthopaedic medicine.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Occasional

MDR9900 - Independent Study/Research at UCF

Course Title
Independent Study/Research at UCF

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
Jan-99

Prerequisites
- Successful completion of M3 core clerkships.

Course Description
Elective permits fourth year medical students to pursue, under the sponsorship of a UCF College of Medicine faculty member, areas of study/research that are not included among regular elective offerings.

College
College of Medicine

Department
College of Medicine MD Program

Terms of Offering
Every Semester

MDX - Medical Externships
**MDX8011 - Extramural Clerkship**

**Course Title**
Extramural Clerkship

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
Extramural elective offers students the opportunity to gain experience at an LCME accredited medical school and its affiliated facilities. Interested students should contact the Office of Student Affairs for information regarding extramural (visiting) elective.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

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**MDX8900 - Independent Study/Research Elective Away**

**Course Title**
Independent Study/Research Elective Away

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Successful completion of M3 core clerkships.

**Course Description**
Elective away permits fourth year medical students to pursue areas of study/research outside of UCF. Arrangements are made between the student, the away supervising faculty member and must be supervised by a UCF College of Medicine faculty member.

**College**
College of Medicine

**Department**
College of Medicine MD Program

**Terms of Offering**
Every Semester

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**MHS - Mental Health Services**
MHS5005 - Introduction to the Counseling Profession

**Course Title**
Introduction to the Counseling Profession

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of Phase II of Education Professional Preparation or C.I.

**Course Description**
Overview of the philosophy, organization, administration, and roles of counselors in various work settings.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

MHS5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

MHS5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology
**MHS6020 - Mental Health Care Systems**  
*Course Title*  
Mental Health Care Systems  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- MHS 5005 or C.I.  

**Course Description**  
Foundations of mental health counseling including organizational, administration, fiscal, and accountability structures.

**College**  
College of Community Innovation and Education  

**Department**  
Department of Counselor Education & School Psychology  

**Terms of Offering**  
Spring  

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**MHS6070 - Diagnosis and Treatment in Counseling**  
*Course Title*  
Diagnosis and Treatment in Counseling  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- MHS 6400, MHR 6401.  

**Course Description**  
Examines diagnosis in the assessment and treatment of mental disorders and the use of the DSM IV. Disorders reviewed with emphasis on symptoms and implications for treatment.

**College**  
College of Community Innovation and Education  

**Department**  
Department of Counselor Education & School Psychology  

**Terms of Offering**  
Fall
MHS6220 - Individual Psychoeducational Testing I

Course Title
Individual Psychoeducational Testing I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
An overview of appraisal instruments for individual testing with emphasis on administration, scoring, and interpretation. Designed for practitioners interested in understanding individual assessment.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring

MHS6221 - Individual Psychoeducational Testing II

Course Title
Individual Psychoeducational Testing II

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- C.I.

Course Description
Analysis of test theory and practice in administration, scoring, and interpretation of tests assessing achievement, visual-motor and cognitive ability, adaptive behavior, and self-concept.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Occasional
MHS6245 - Assessment and Treatment in Addictions

Course Title
Assessment and Treatment in Addictions

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Application of assessment and treatment models in addictions, and the ethical application of services to support persons with addictions and chemical dependency and their families.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

MHS6400 - Theories of Counseling and Personality

Course Title
Theories of Counseling and Personality

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MHS 5005 or MHS 6020, EDF 6481, or C.I.

Course Description
Major theories and approaches to counseling, correlating them with counterpart theories of personality and learning.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring
Fall

2021-2022 Graduate Catalog
MHS6401 - Techniques of Counseling

Course Title
Techniques of Counseling

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- MHS 6400 or C.I.

Course Description
The nature of counseling and its relationships to theoretical concepts.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Every Semester

MHS6403 - Group and Family Play Therapy

Course Title
Group and Family Play Therapy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
MHS 6421. This practical course provides an overview of using different mediums of play therapy, including expressive arts, groups of children, and families for a systemic approach.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring
MHS6407 - Counseling for Wellness

Course Title
Counseling for Wellness

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Introduction to wellness concepts and topics in counseling including spirituality, health, stress research, positive assessment and others.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Odd Fall

MHS6420 - Foundations of Multicultural Counseling

Course Title
Foundations of Multicultural Counseling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MHS 5005 or C.I.

Course Description
Reviews knowledge and research pertaining to multicultural counseling and social justice issues, develops skills and personal awareness, and examines attributes that affect counseling diverse populations.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Occasional
MHS6421 - Foundations of Play Therapy and Expressive Arts

**Course Title**
Foundations of Play Therapy and Expressive Arts

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
This course addresses the theories and application of principles of play and expressive arts in the counseling process with children.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
- Summer
- Fall

MHS6422 - Advanced Theories and Techniques of Play Therapy

**Course Title**
Advanced Theories and Techniques of Play Therapy

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MHS 6421.

**Course Description**
This course provides an in-depth study of play therapy counseling theories, utilizing didactic and experiential mediums to enhance the students' development of play therapy skills.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
- Fall
MHS6424 - Filial Therapy

Course Title
Filial Therapy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MHS 6421.

Course Description
This course teaches students how to include parents in the play therapy process through learning a specific model of filial in a 10-week group experience.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring

MHS6430 - Family Counseling I

Course Title
Family Counseling I

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- MHS 5005 or MHS 6020 or C.I.

Course Description
Presentation of specific family counseling theories. An evolution and current state of the art.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Fall
MHS6431 - Family Counseling II

Course Title
Family Counseling II

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- MHS 6430, EDF 6481, or C.I.

Course Description
Presentation of techniques to work with entrenched, paradoxical, and \textit{fixed} family systems that pose problems for the family and the counselor.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Fall

MHS6440 - Couples Counseling

Course Title
Couples Counseling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Overview of couple counseling theory and technique. In addition, the course covers special problems and stressors in the couple relationship.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Summer
MHS6450 - Addictions Counseling

Course Title
Addictions Counseling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• Graduate standing or C.I.

Course Description
Examination within systematic, theoretical framework of the function that a substance, individual, and the environment play in use and abuse of illicit and licit substances.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Fall
Even Spring

MHS6465 - Counseling Victims and Perpetrators of Family Violence

Course Title
Counseling Victims and Perpetrators of Family Violence

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Examination of counseling interventions used with victims and perpetrators of family violence.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Occasional
MHS6466 - Foundations of Trauma and Crisis Counseling  
**Course Title**  
Foundations of Trauma and Crisis Counseling  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- MHS 5005 or C.I.  
**Course Description**  
An overview of the effects of crisis, disasters, and trauma on diverse individuals across the lifespan, focusing on trauma-specific counseling interventions and trauma-informed counseling strategies.  
**College**  
College of Community Innovation and Education  
**Department**  
Department of Counselor Education & School Psychology  
**Terms of Offering**  
Summer  

MHS6470 - Human Sexuality and Relationships  
**Course Title**  
Human Sexuality and Relationships  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Course Description**  
A basic course in understanding how human beings form intra- and interpersonal relationships and how sexuality develops.  
**College**  
College of Community Innovation and Education  
**Department**  
Department of Counselor Education & School Psychology  
**Terms of Offering**  
Fall
MHS6500 - Group Procedures and Theories in Counseling

Course Title
Group Procedures and Theories in Counseling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MHS 6401.

Course Description
This course is designed to give the student an understanding of the role of theories in group counseling as well as the many process applications of groups.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Every Semester

MHS6510 - Advanced Group Counseling

Course Title
Advanced Group Counseling

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- MHS 6500 or C.I.

Course Description
This course is designed to give students practical experience in leading groups. It is also intended to challenge students to explore professional and advanced issues in group counseling.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring
MHS6600 - Consultation, Staffing, and Case Management

**Course Title**
Consultation, Staffing, and Case Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
MHS 6500 or C.I. Understanding the counselor's role as consultant and staffing team member. Study of case management procedures.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Occasional

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MHS6702 - Ethical and Legal Issues

**Course Title**
Ethical and Legal Issues

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- C.I.

**Course Description**
Studies of ethical standards and legal issues in counseling and other human service professions.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Odd Summer
MHS6803 - Practicum in Counselor Education

Course Title
Practicum in Counselor Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MHS 5005, MHS 6400, MHS 6401, MHS 6500, C.I.

Course Description
Supervised counseling emphasizing competence in (1) individual counseling (2) working with groups (3) tests in educational-career-personal counseling. May be repeated for credit.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Odd Fall
Even Spring
Odd Summer

MHS6830 - Counseling Internship

Course Title
Counseling Internship

Credits Hours
1 - 6

Lab/Studio/Field Work Hours
6-Jan

Prerequisites
- C.I.

Course Description
Supervised placement in setting appropriate for program track. May be repeated for credit.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Every Semester
MHS6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology

MHS6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology

MHS6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology

MHS6949 - Cooperative Education in Mental Health Services
Course Title
Cooperative Education in Mental Health Services
Credits Hours
0 - 99
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology

2021-2022 Graduate Catalog
MHS7311 - Scholarship and External Funding in Counselor Education

Course Title
Scholarship and External Funding in Counselor Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into UCF's Counselor Education PhD program.

Course Description
Emphasis on review processes and grant writing for State and Federal agencies as well as Private Foundations.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring

MHS7340 - Advanced Career Development

Course Title
Advanced Career Development

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to PhD in Education.

Course Description
An advanced study of career development theories, occupational and educational information, approaches to career decision-making, lifestyle and leisure in the development of the whole person.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring
MHS7406 - Advanced Theories in Counseling  
**Course Title**  
Advanced Theories in Counseling  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Admission to PhD program in Education--Counselor Education track.  
**Course Description**  
Examination of counseling theories including historical foundations and emerging theories.  
**College**  
College of Community Innovation and Education  
**Department**  
Department of Counselor Education & School Psychology  
**Terms of Offering**  
Fall

MHS7497 - Advanced Multiculturalism in Counseling  
**Course Title**  
Advanced Multiculturalism in Counseling  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Admission to UCF's PhD in Education - Counselor Education Track program.  
**Course Description**  
The course examines multiculturalism from the perspective of higher education and also within the context of counseling multicultural competencies.  
**College**  
College of Community Innovation and Education  
**Department**  
Department of Counselor Education & School Psychology  
**Terms of Offering**  
Even Summer
MHS7611 - Supervision in Counselor Education

**Course Title**
Supervision in Counselor Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to PhD in Education--Counselor Education track.

**Course Description**
An examination of the process and various theories of supervision in counselor education.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Summer

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MHS7700 - Literature and Leadership in Counselor Education

**Course Title**
Literature and Leadership in Counselor Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to PhD program in Education--Counselor Education track.

**Course Description**
Emphasis on current trends, leadership development, and consultation in Counselor Education.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Spring
MHS7730 - Research Seminar in Counselor Education

Course Title
Research Seminar in Counselor Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to PhD in Education.

Course Description
An examination of outcome research design, methodological issues and empirical basis of counseling.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Even Summer

MHS7801 - Advanced Practicum in Counselor Education

Course Title
Advanced Practicum in Counselor Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to PhD program in Education--Counselor Education track.

Course Description
This course provides advanced graduate students an opportunity to demonstrate and develop counseling skills.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Occasional
MHS7808 - Internship in Counseling Supervision

Course Title
Internship in Counseling Supervision

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to PhD program in Education and MHS 7611.

Course Description
Integration of theory and practice in counseling supervision.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Fall

MHS7840 - Internship in Counselor Education

Course Title
Internship in Counselor Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to PhD program in Education--Counselor Education track.

Course Description
Examine and practice the various roles within a Counselor Education program under direct supervision.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring
Fall
MHS7919 - Research
Course Title
Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology

MHS7939 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology

MHS7980 - Dissertation
Course Title
Dissertation
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Counselor Education & School Psychology

MLS - Medical Laboratory Science

MLS5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Medicine
Department
College of Medicine Burnett School of Biomedical Sciences
MLS5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Medicine
Department
College of Medicine Burnett School of Biomedical Sciences

MLS6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Medicine
Department
College of Medicine Burnett School of Biomedical Sciences

MLS6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Medicine
Department
College of Medicine Burnett School of Biomedical Sciences

MLS6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Medicine
Department
College of Medicine Burnett School of Biomedical Sciences
MLS6943 - Advanced Specialization in Immunohematology: Practice

Course Title
Advanced Specialization in Immunohematology: Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Acceptance in the Specialist in Blood Banking program.

Course Description
Supervised practice in donor recruitment, phlebotomy, donor testing. Component preparation, HLA typings, transfusion service and management in the community blood center.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

MLS6949 - Cooperative Education in Medical Laboratory Science

Course Title
Cooperative Education in Medical Laboratory Science

Credits Hours
0 - 99

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

MMC - Mass Media Communications

MMC5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Nicholson School of Communication and Media
MMC5937 - Special Topics  
**Course Title**  
Special Topics  
**Credits Hours**  
3  
**College**  
College of Sciences  
**Department**  
Nicholson School of Communication and Media  

MMC6202 - Legal and Ethical Issues for Communication  
**Course Title**  
Legal and Ethical Issues for Communication  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Course Description**  
A study of social, ethical and legal issues for Communications practitioners and the impact on media consumers.  
**College**  
College of Sciences  
**Department**  
Nicholson School of Communication and Media  
**Terms of Offering**  
Occasional  

MMC6307 - International Communication  
**Course Title**  
International Communication  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Course Description**  
Case studies on global communication, coping with cultures, communicating across cultures, global media, global news flow and persuasive communication. May be repeated for credit.  
**College**  
College of Sciences  
**Department**  
Nicholson School of Communication and Media  
**Terms of Offering**  
Occasional  

2021-2022 Graduate Catalog
MMC6567 - New Media

Course Title
New Media

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Communication M.A. program of Strategic Communication Ph.D. program or C.I.

Course Description
A study of the development and convergence of new technologies and their mediation.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional

MMC6600 - Media Effects and Audience Analysis

Course Title
Media Effects and Audience Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
A study of the effects of communication on society emphasizing the research in media effects.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional
MMC6612 - Communication and Government
Course Title
Communication and Government

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
A study of the relationship between the media and government.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional

MMC6735 - Social Media as Mass Communication
Course Title
Social Media as Mass Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
COM 6008 or C.I. Overview of social media and its role in mass communication and society. A particular emphasis on scholarship and practice in corporate communication.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional

MMC6909 - Research Report
Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Nicholson School of Communication and Media
MMC6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Nicholson School of Communication and Media

MMC6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Nicholson School of Communication and Media

MTG - Mathematics Topology and Geometry

MTG5253 - Introduction to Differential Geometry
Course Title
Introduction to Differential Geometry
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- MAC 2313 or equivalent or C.I.
Course Description
Curves and surfaces in 2D and 3D, covariant derivative of a vector field, geodesics, Gauss-Bonnet Theorem.
College
College of Sciences
Department
Department of Mathematics
Terms of Offering
Fall
MTG5256 - Differential Geometry

**Course Title**  
Differential Geometry

**Credits Hours**  
3

**Lab/Studio/Field Work Hours**  
0

**Prerequisites**  
- MAA 4227, graduate status or senior standing, or C.I.

**Course Description**  
Differentiable manifolds, tangent space and tangent bundle, flows and vector fields, Lie derivatives, cotangent space and cotangent bundles, Riemann metrics, connections and geodesics, applications in classical mechanics.

**College**  
College of Sciences

**Department**  
Department of Mathematics

**Terms of Offering**  
Occasional

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MTG5917 - Directed Research

**Course Title**  
Directed Research

**Credits Hours**  
1 - 99

**College**  
College of Sciences

**Department**  
Department of Mathematics

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MTG5937 - Special Topics

**Course Title**  
Special Topics

**Credits Hours**  
3

**College**  
College of Sciences

**Department**  
Department of Mathematics
**MTG6345 - Algebraic Topology**

**Course Title**
Algebraic Topology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- MTG 4302 Introduction to Topology and MAS 4301 Abstract Algebra I, or C.I.

**Course Description**
Topics of this course include fundamental group, singular and cellular homology, cohomology rings, Poincare duality, homotopy groups.

**College**
College of Sciences

**Department**
Department of Mathematics

**Terms of Offering**
Occasional

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**MTG6908 - Independent Study**

**Course Title**
Independent Study

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Mathematics

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**MUC - Music: Composition**
MUC5112 - Composition V  
**Course Title**  
Composition V  

**Credits Hours**  
2  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Graduate standing in music education or C.I.  

**Course Description**  
Advanced music composition at the graduate level. May be used in the degree program a maximum of 4 times.  

**College**  
College of Arts and Humanities  

**Department**  
Department of Music

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MUC5917 - Directed Research  
**Course Title**  
Directed Research  

**Credits Hours**  
1 - 99  

**College**  
College of Arts and Humanities  

**Department**  
Department of Music

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MUC5937 - Special Topics  
**Course Title**  
Special Topics  

**Credits Hours**  
3  

**College**  
College of Arts and Humanities  

**Department**  
Department of Music
MUC6251 - Composition VI

Course Title
Composition VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
Admission into MA in Music degree program and audition.

Course Description
Intensive advanced study in musical composition. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

MUC6938 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MUE - Music Education
MUE5348C - K-12 Music Methods

Course Title
K-12 Music Methods

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in Music Education or C.I.

Course Description
Organization and administration of instruction for comprehensive music education, K-12. Instructional planning, techniques, and materials for general, choral, and instrumental music education.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring

MUE5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music
MUE5921 - Music Education Workshop

Course Title
Music Education Workshop

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites

- Graduate standing or C.I.

Course Description
Variable topics in Music Education to offer hands-on instruction in a workshop format. May be used in the degree program a maximum of 4 times only when course content is different.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Summer

MUE5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Music
MUE6080 - Foundations of Music Education  
**Course Title**  
Foundations of Music Education  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Graduate standing in music.  
**Course Description**  
Study of significant historical events that have shaped music education along with important research and philosophical writings. Designed for online delivery.  
**College**  
College of Arts and Humanities  
**Department**  
Department of Music  
**Terms of Offering**  
Odd Fall

MUE6175 - Teaching Music Performance  
**Course Title**  
Teaching Music Performance  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Graduate standing in M.A. or M.Ed. in Music Education or C.I.  
**Course Description**  
Techniques and skills for planning, administering and directing performing music organizations. Examination of historical, sociological and philosophical foundations of music education.  
**College**  
College of Arts and Humanities  
**Department**  
Department of Music  
**Terms of Offering**  
Summer
MUE6746 - Assessment and Evaluation in Music Education

Course Title
Assessment and Evaluation in Music Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in Music or C.I.

Course Description
Music learning theory and assessment in the K-12 music classroom.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Summer

MUE6785 - Introduction to Research in Music Education

Course Title
Introduction to Research in Music Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Basic concepts of research in Music Education. Students will read, analyze, and discuss current research literature, and write research reports.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Occasional
MUE6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Music

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MUE6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Music

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MUE6936 - Current Topics in Music Education

**Course Title**
Current Topics in Music Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in Music or C.I.

**Course Description**
Study and application of current topics and issues in music education. May be used in the degree program a maximum of 2 times only when course content is different.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Summer
MUE6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Music

MUE6945 - Practicum in Music Education

Course Title
Practicum in Music Education

Credits Hours
3

Lab/Studio/Field Work Hours
14

Prerequisites
- Basic Teacher Certificate.

Course Description
MUE 6349, MUE 6610 and MUE 6630 or C.I. Field experience in teaching music. May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Music

MUG - Music Conducting

MUG5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music
MUG5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Arts and Humanities

**Department**
Department of Music

MUG6106 - Advanced Conducting I

**Course Title**
Advanced Conducting I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in MEd or MA in Music Education or C.I.

**Course Description**
Basic conducting practices including the application of theory and personal musicianship skills.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Occasional
MUG6306 - Conducting and Literature

Course Title
Conducting and Literature

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to Music MA and audition.

Course Description
Private lessons in conducting, combined with small group study of ensemble literature from different time periods.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Occasional

MUG6938 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MUH - Music: History/Musicology
MUH5326 - Medieval and Renaissance Music

**Course Title**
Medieval and Renaissance Music

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in music education or C.I.

**Course Description**
Music and culture of Western Europe in the era c. 450-1600.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Odd Fall

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MUH5345 - Music of the Baroque

**Course Title**
Music of the Baroque

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in music or music education or C.I.

**Course Description**
Baroque music, 1600-1750. Investigates Baroque musical styles and composers within their diverse historical, musical, and cultural contexts.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Occasional
MUH5356 - Eighteenth-Century Music

Course Title
Eighteenth-Century Music

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in music education or C.I.

Course Description
Music and culture of Western Europe in the era c. 1700-1800.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Occasional

MUH5365 - Music of the 19th Century

Course Title
Music of the 19th Century

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in Music or C.I.

Course Description
Western Art Music of the 19th Century.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall
MUH5375 - Music Since 1900

**Course Title**
Music Since 1900

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in Music Education or C.I.

**Course Description**
Music and culture of Western and American art Music from c. 1900 to the present.

**College**
College of Arts and Humanities

**Department**
Department of Music

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MUH5665 - Development of Opera

**Course Title**
Development of Opera

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in Music or C.I.

**Course Description**
An in-depth examination of Western European opera, from its origins around 1600 until the present day.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Even Spring
MUH5816 - Jazz Styles and Analysis

Course Title
Jazz Styles and Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Advanced study of historical style periods and master artists in jazz music.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

MUH5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MUH5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Music
MUH6916 - Music Bibliography and Research

Course Title
Music Bibliography and Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into MA in Music degree program or C.I.

Course Description
Materials and techniques used in scholarly research in music.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

MUH6935 - Music History Seminar

Course Title
Music History Seminar

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MUH 6916 or C.I.

Course Description
Seminar on selected topics in music history and literature. May be used in the degree program a maximum of 3 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall
MUH6938 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MUL - Music: Music Literature

MUL5436 - Guitar Literature and Pedagogy

Course Title
Guitar Literature and Pedagogy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in Music or C.I.

Course Description
Survey of significant repertoire and pedagogy for classical guitar.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Spring
MUL5439 - String Literature and Pedagogy

**Course Title**
String Literature and Pedagogy

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in Music or C.I.

**Course Description**
Study of string literature from the Baroque period to the 20th century, along with prominent pedagogical principles.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Odd Fall

MUL5447 - Woodwind Literature and Pedagogy

**Course Title**
Woodwind Literature and Pedagogy

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in Music or C.I.

**Course Description**
Major works written for woodwind instruments, as well as the study of the basic concepts and techniques fundamental to teaching woodwind instruments.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Odd Spring
MUL5448 - Brass Literature and Pedagogy

Course Title
Brass Literature and Pedagogy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in Music or C.I.

Course Description
Significant brass repertoire, study materials and a review of teaching techniques for artistic brass performance.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Even Fall

MUL5555 - Band Literature

Course Title
Band Literature

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Survey of materials for use in the public school band classroom, including beginning band methods, technique books, and musical selections appropriate for concert performance.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Occasional
MUL5645 - Choral Literature

Course Title
Choral Literature

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Survey of choral music from its beginnings to the present with consideration of historical perspective; genres, styles and performance practice; major composers and representative works.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Occasional

MUL5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MUL5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Music

MUN - Music: Music Ensembles
MUN5125 - Concert Band

Course Title
Concert Band

Credits Hours
1

Lab/Studio/Field Work Hours
3

Prerequisites
- Open to all graduate students by audition.

Course Description
Study and performance of music for large ensembles. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

Current Fee Per Student
$20.00

MUN5145 - Wind Ensemble

Course Title
Wind Ensemble

Credits Hours
1

Lab/Studio/Field Work Hours
4

Prerequisites
- Open to all graduate students by audition.

Course Description
Study and performance of music for wind ensemble and band. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

Current Fee Per Student
$20.00
MUN5215 - Symphony Orchestra

Course Title
Symphony Orchestra

Credits Hours
1

Lab/Studio/Field Work Hours
5

Prerequisites
- Open to all graduate students by audition.

Course Description
Rehearsal and performance of works from the symphonic repertoire. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

Current Fee Per Student
$20.00

MUN5325 - Women's Chorus

Course Title
Women's Chorus

Credits Hours
1

Lab/Studio/Field Work Hours
3

Prerequisites
- Open to all graduate students by audition.

Course Description
Study and performance of choral music for women's voices. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

Current Fee Per Student
$20.00
MUN5368L - Graduate Chamber Singers

**Course Title**
Graduate Chamber Singers

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Graduate standing in Music Education and C.I.

**Course Description**
A select, mixed choir that explores music appropriate to a small, advanced ensemble, and performs in the Orlando area each semester. May be used in the degree program a maximum of 5 times.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Spring
Fall

**Current Fee Per Student**
$20.00

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MUN5385L - Graduate University Chorus

**Course Title**
Graduate University Chorus

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Graduate standing in Music Education and C.I.

**Course Description**
Study and performance of large ensemble music. May be used in the degree program a maximum of 5 times.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Current Fee Per Student**
$20.00
MUN5445 - Percussion Ensemble

Course Title
Percussion Ensemble

Credits Hours
1

Lab/Studio/Field Work Hours
2

Prerequisites
- Open to all graduate students by audition.

Course Description
Study and performance of music for small percussion ensembles. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

Current Fee Per Student
$35.00

MUN5465L - Graduate Chamber Music

Course Title
Graduate Chamber Music

Credits Hours
1

Lab/Studio/Field Work Hours
2

Prerequisites
- Graduate standing in Music Education and C.I.

Course Description
The study and performance of vocal and/or instrumental chamber ensemble literature. Flexible instrumentation to meet student needs. May be used in the degree program a maximum of 5 times.

College
College of Arts and Humanities

Department
Department of Music

Current Fee Per Student
$20.00
MUN5478L - Early Music Ensemble

Course Title
Early Music Ensemble

Credits Hours
1

Lab/Studio/Field Work Hours
1

Prerequisites
- Graduate standing in Music Education and C.I.

Course Description
Graduate ensemble experience with instruments and repertoire of the Medieval, Renaissance, and Baroque periods. May be used in the degree program a maximum of 5 times.

College
College of Arts and Humanities

Department
Department of Music

Current Fee Per Student
$5.00

MUN5715L - Jazz Ensemble

Course Title
Jazz Ensemble

Credits Hours
1

Lab/Studio/Field Work Hours
4

Prerequisites
- Audition, graduate or senior standing, and C.I.

Course Description
Study and performance of jazz big band music. May be used in the degree program a maximum of 4 times only when course content is different.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall

Current Fee Per Student
$20.00
MUN5716L - Jazz Chamber Group

Course Title
Jazz Chamber Group

Credits Hours
1

Lab/Studio/Field Work Hours
2

Prerequisites
- Audition, graduate standing or senior standing, and C.I.

Course Description
Study and performance of jazz small group music. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall

Current Fee Per Student
$20.00

MUN5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MUN5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Music
MUN5937L - Special Topics
Course Title
Special Topics
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MUN6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MUN6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MUN6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Music

MUO - Music Opera
MUO5505L - Graduate Opera Workshop

Course Title
Graduate Opera Workshop

Credits Hours
1

Lab/Studio/Field Work Hours
3

Prerequisites
- C.I. and audition.

Course Description
Study of audition techniques, operatic roles and repertoire, and characterization through performance. May be used in the degree program a maximum of 5 times.

College
College of Arts and Humanities

Department
Department of Music

Current Fee Per Student
$70.00

MUO5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MUO5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Music
**MUO5937L - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Music

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**MUS - Music**

**MUS5365 - Music and Technology**

**Course Title**
Music and Technology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status or senior standing, or C.I.

**Course Description**
The emergence of technology in music including MIDI, CD ROM, and the high-tech music classroom.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Occasional
MUS5677 - Health and Wellness for the Performing Artist  
**Course Title**  
Health and Wellness for the Performing Artist  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Admission to Music MA or C.I.  

**Course Description**  
Focus on performing artists’ health and related topics.  

**College**  
College of Arts and Humanities  

**Department**  
Department of Music  

**Terms of Offering**  
Spring  

MUS5917 - Directed Research  
**Course Title**  
Directed Research  

**Credits Hours**  
1 - 99  

**College**  
College of Arts and Humanities  

**Department**  
Department of Music
MUS5927 - Music Performance Workshop

**Course Title**
Music Performance Workshop

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Music MA or C.I.

**Course Description**
Individual coaching and study of the art of music performance, including mock auditions and performances.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Every Semester

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MUS5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Arts and Humanities

**Department**
Department of Music
MUS6465 - Intensive Chamber Music

Course Title
Intensive Chamber Music

Credits Hours
3

Lab/Studio/Field Work Hours
4

Prerequisites
- Admission to Music MA or C.I. and audition.

Course Description
Concentrated rehearsal and coaching in a chamber music ensemble, as well as study of the corresponding genre.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Occasional

MUS6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MUS6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music
MUS6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Music

MUS6949 - Cooperative Education in Music

Course Title
Cooperative Education in Music

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the graduate program in Music or C.I.

Course Description
Strategies to create a collaborative and inquiry-based learning environment in a range of K-12 music classes/ensembles.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Occasional
MUS6960 - Comprehensive Exam

Course Title
Comprehensive Exam

Credits Hours
0

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Music MA or C.I.

Course Description
Written exam used as a synthesis of knowledge for graduate students, normally taken in the last semester.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Occasional

MUS6975L - Graduate Project

Course Title
Graduate Project

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Two semesters of graduate study in the appropriate area or C.I.

Course Description
Planning, researching, and creating a written document in a non-performance area in music, designed to serve as a cumulative synthesis of learning.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall
MUS6976L - Graduate Recital

Course Title
Graduate Recital

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Two semesters of graduate level study in the appropriate area or C.I.

Course Description
Public performance in an area such as instrumental/vocal performance, conducting or composition, designed as a capstone experience.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall

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MUT - Music: Theory

MUT5316 - Orchestration

Course Title
Orchestration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in Music or C.I.

Course Description
Study of the various instruments commonly found in orchestras and wind ensembles and how to write for these instruments in combination.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Spring
MUT5445 - Counterpoint

Course Title  
Counterpoint

Credits Hours  
3

Lab/Studio/Field Work Hours  
0

Prerequisites  
- Graduate standing in Music or C.I.

Course Description  
Principles of counterpoint and the study of contrapuntal styles in Western music from the 16th century to the present day.

College  
College of Arts and Humanities

Department  
Department of Music

Terms of Offering  
Even Spring

MUT5620 - Analysis of Twentieth Century Music

Course Title  
Analysis of Twentieth Century Music

Credits Hours  
3

Lab/Studio/Field Work Hours  
0

Prerequisites  
- Graduate standing in Music or C.I.

Course Description  
Analysis of music in a selection of the different styles practiced in the 20th century, with an emphasis on Western art music.

College  
College of Arts and Humanities

Department  
Department of Music

Terms of Offering  
Fall
MUT5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MUT5936 - Music Theory Seminar

Course Title
Music Theory Seminar

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in music education or C.I.

Course Description
One or more issues of importance in music theory with emphasis on recent scholarly literature and debates. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

MUT5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Music
MUT6621 - Techniques and Concepts of Musical Analysis

Course Title
Techniques and Concepts of Musical Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
 Admission into MA in Music or C.I.

Course Description
Advanced techniques in musical analysis.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

MUT6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MUT6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music
MUT6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Music

MVB - Music: Applied-Brasses

MVB5451 - Trumpet V
Course Title
Trumpet V
Credits Hours
2
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate status or senior standing and C.I.
Course Description
May be repeated for credit.
College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Spring
Fall
MVB5452 - French Horn V

Course Title
French Horn V

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing and C.I.

Course Description
May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall

MVB5453 - Trombone V

Course Title
Trombone V

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing and C.I.

Course Description
May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall
MVB5454 - Baritone V

Course Title
Baritone V

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing and C.I.

Course Description
May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall

MVB5455 - Tuba V

Course Title
Tuba V

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing and C.I.

Course Description
May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall
MVB5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVB5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Music

MVB6461 - Trumpet VI
Course Title
Trumpet VI
Credits Hours
2
Lab/Studio/Field Work Hours
1
Prerequisites
¬ Admission into MA in Music degree program and audition.
Course Description
Intensive advanced study of trumpet performance. May be used in the degree program a maximum of 4 times.
College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Odd Fall
MVB6462 - French Horn VI
Course Title
French Horn VI
Credits Hours
2
Lab/Studio/Field Work Hours
1
Prerequisites
Admission into M.A. in Music degree program and audition.
Course Description
Intensive advanced study of French Horn performance. May be used in the degree program a maximum of 4 times.
College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Odd Fall

MVB6463 - Trombone VI
Course Title
Trombone VI
Credits Hours
2
Lab/Studio/Field Work Hours
1
Prerequisites
Admission into MA in Music degree program and audition.
Course Description
Intensive advanced study of trombone performance. May be used in the degree program a maximum of 4 times.
College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Odd Fall
MVB6464 - Euphonium VI

Course Title
Euphonium VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission into MA in Music degree program and audition.

Course Description
Intensive advanced study of euphonium performance. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

MVB6465 - Tuba VI

Course Title
Tuba VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission into MA in Music degree program and audition.

Course Description
Intensive advanced study of tuba performance. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall
MVB6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVB6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVB6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Music

MVJ - Applied Music Jazz
**MVJ5350C - Jazz Piano V**

**Course Title**  
Jazz Piano V

**Credits Hours**  
2

**Lab/Studio/Field Work Hours**  
1

**Prerequisites**
- Audition, graduate standing or senior standing, and C.I.

**Course Description**  
Study of jazz piano literature, styles, and techniques. May be used in the degree program a maximum of 3 times.

**College**  
College of Arts and Humanities

**Department**  
Department of Music

**Terms of Offering**
- Spring
- Fall

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**MVJ5353C - Jazz Guitar V**

**Course Title**  
Jazz Guitar V

**Credits Hours**  
2

**Lab/Studio/Field Work Hours**  
1

**Prerequisites**
- Audition, graduate standing or senior standing, and C.I.

**Course Description**  
Study of jazz guitar literature, styles and techniques. May be used in the degree program a maximum of 3 times only when course content is different.

**College**  
College of Arts and Humanities

**Department**  
Department of Music

**Terms of Offering**
- Spring
- Fall
MVJ5354C - Jazz Bass V
Course Title
Jazz Bass V
Credits Hours
2
Lab/Studio/Field Work Hours
1
Prerequisites
- Audition, graduate standing or senior standing, and C.I.
Course Description
Study of jazz bass literature, styles and techniques. May be used in the degree program a maximum of 3 times only when course content is different.

College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Spring
Fall

MVJ5359C - Jazz Drum Set V
Course Title
Jazz Drum Set V
Credits Hours
2
Lab/Studio/Field Work Hours
1
Prerequisites
- Audition, graduate standing or senior standing, and C.I.
Course Description
Study of jazz drum set literature, styles, and techniques. May be used in the degree program a maximum of 3 times only when course content is different.

College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Spring
Fall
Current Fee Per Student
$35.00
MVJ6369C - Jazz Drum Set VI
Course Title
Jazz Drum Set VI
Credits Hours
2
Lab/Studio/Field Work Hours
1
Prerequisites
- Admission into the MA in Music and an audition.

Course Description
Advanced study of jazz drum set literature, styles and techniques; continuation of Jazz Drum Set V. May be used in the degree program a maximum of 3 times only when course content is different.

College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Spring
Fall
Current Fee Per Student
$35.00

MVJ6460C - Jazz Piano VI
Course Title
Jazz Piano VI
Credits Hours
2
Lab/Studio/Field Work Hours
1
Prerequisites
- Admission to MA in Music and an audition.

Course Description
Advanced study of jazz piano literature, styles, and techniques; continuation of Jazz Piano V. May be used in the degree program a maximum of 3 times.

College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Spring
Fall
MVJ6463C - Jazz Guitar VI

Course Title
Jazz Guitar VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to the MA in Music and an audition.

Course Description
Advanced study of jazz guitar literature, styles and techniques; continuation of Jazz Guitar V. May be used in the degree program a maximum of 3 times only when course content is different.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall

MVJ6464C - Jazz Bass VI

Course Title
Jazz Bass VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission into the MA in Music and an audition.

Course Description
Advanced study of jazz bass literature, styles and techniques; continuation of Jazz Bass V. May be used in the degree program a maximum of 3 times only when course content is different.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall
MVJ6952 - Jazz VI

Course Title
Jazz VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission into M.A. in Music degree program and audition.

Course Description
Intensive advanced study of jazz performance. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

MVK - Music: Applied-Keyboard

MVK5451 - Piano V

Course Title
Piano V

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing and C.I.

Course Description
May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall

2021-2022 Graduate Catalog
MVK5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVK5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Music

MVK6461 - Piano VI
Course Title
Piano VI
Credits Hours
2
Lab/Studio/Field Work Hours
1
Prerequisites
- Admission into MA in Music degree program and audition.
Course Description
Intensive advanced study of piano performance. May be used in the degree program a maximum of 4 times.
College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Odd Fall
MVK6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVK6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVK6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Music

MVO - Music: Applied-Other Instruments
MVO5250 - Advanced Secondary Instruction
Course Title
Advanced Secondary Instruction

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing, and C.I.

Course Description
Advanced instructional techniques on a secondary instrument or in voice. May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Occasional

MVO5917 - Directed Research
Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MVO5937 - Special Topics
Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Music
MVO6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVO6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVO6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Music

MVP - Music: Applied-Percussion
MVP5451 - Percussion V

Course Title
Percussion V

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites

- Graduate status or senior standing and C.I.

Course Description
May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall

Current Fee Per Student
$35.00

MVP5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MVP5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Music
MVP6461 - Percussion VI

Course Title
Percussion VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission into MA in Music degree program and audition.

Course Description
Intensive advanced study of percussion instruments. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

Current Fee Per Student
$35.00

MVP6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MVP6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits Hours</th>
<th>Lab/Studio/Field Work Hours</th>
<th>Prerequisites</th>
<th>Course Description</th>
<th>College</th>
<th>Department</th>
<th>Terms of Offering</th>
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<tbody>
<tr>
<td>MVP6938</td>
<td>Special Topics</td>
<td>3</td>
<td>0</td>
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<td>May be repeated for credit.</td>
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<td>Department of Music</td>
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<td>MVS5451</td>
<td>Violin V</td>
<td>2</td>
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<td><strong>Graduate status or senior standing and C.I.</strong></td>
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<td>Spring, Fall</td>
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</tr>
</tbody>
</table>
MVS5452 - Viola V  
**Course Title**  
Viola V  

**Credits Hours**  
2  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Graduate status or senior standing and C.I.  

**Course Description**  
May be repeated for credit.  

**College**  
College of Arts and Humanities  

**Department**  
Department of Music  

**Terms of Offering**  
Spring  
Fall  

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MVS5453 - Cello V  
**Course Title**  
Cello V  

**Credits Hours**  
2  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Graduate status or senior standing and C.I.  

**Course Description**  
May be repeated for credit.  

**College**  
College of Arts and Humanities  

**Department**  
Department of Music  

**Terms of Offering**  
Spring  
Fall
MVS5454 - Bass V

Course Title
Bass V

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing and C.I.

Course Description
May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall

MVS5455 - Harp V

Course Title
Harp V

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing and C.I.

Course Description
May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall
MVS5456 - Guitar V
Course Title
Guitar V
Credits Hours
2
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate status or senior standing and C.I.
Course Description
May be used in the degree program a maximum of 4 times.
College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Spring
Fall

MVS5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVS5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Music
MVS6461 - Violin VI

Course Title
Violin VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission into MA in Music degree program and audition.

Course Description
Intensive advanced study of violin performance. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

MVS6462 - Viola VI

Course Title
Viola VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission into MA in Music degree program and audition.

Course Description
Intensive advanced study of viola performance. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall
MVS6463 - Cello VI

Course Title
Cello VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission into MA in Music degree program and audition.

Course Description
Intensive advanced study of cello performance. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

MVS6465 - Harp VI

Course Title
Harp VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission into MA in Music degree program and audition.

Course Description
Intensive advanced study of harp performance. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall
MVS6466 - Classical Guitar VI

Course Title
Classical Guitar VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission into MA in Music degree program and audition.

Course Description
Intensive advanced study of classical guitar performance. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall

MVS6467 - Bass VI

Course Title
Bass VI

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission into MA in Music degree program and audition.

Course Description
Intensive advanced study of string bass performance. May be used in the degree program a maximum of 4 times.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Odd Fall
MVS6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVS6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVS6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Music

MVV - Music: Applied-Voice
MVV5451 - Voice V
Course Title
Voice V
Credits Hours
2
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing or senior standing and C.I.
Course Description
May be used in the degree program a maximum of 4 times.
College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Spring
Fall

MVV6551 - Voice Pedagogy
Course Title
Voice Pedagogy
Credits Hours
2
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing in Music or C.I.
Course Description
Vocal function, anatomy, and pedagogical methodology with application to the voice teacher and performer.
College
College of Arts and Humanities
Department
Department of Music
Terms of Offering
Odd Spring
MVV5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Music

MVV5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Arts and Humanities

**Department**
Department of Music

MVV6452 - Voice VI

**Course Title**
Voice VI

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission into MA in Music degree program and audition.

**Course Description**
Intensive advanced study of vocal performance. May be used in the degree program a maximum of 4 times.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Odd Fall
MVV6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVV6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Music

MVV6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Music

MVW - Music: Applied-Woodwinds
**MVW5451 - Flute V**

**Course Title**
Flute V

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status or senior standing and C.I.

**Course Description**
May be repeated for credit.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Spring
Fall

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**MVW5452 - Oboe V**

**Course Title**
Oboe V

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status or senior standing and C.I.

**Course Description**
May be repeated for credit.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Spring
Fall
**MVW5453 - Clarinet V**

**Course Title**
Clarinet V

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status or senior standing and C.I.

**Course Description**
May be repeated for credit.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Spring
Fall

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**MVW5454 - Bassoon V**

**Course Title**
Bassoon V

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status or senior standing and C.I.

**Course Description**
May be repeated for credit.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Spring
Fall

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2021-2022 Graduate Catalog
MVW5455 - Saxophone V

Course Title
Saxophone V

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing and C.I.

Course Description
May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Music

Terms of Offering
Spring
Fall

MVW5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Music

MVW5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Music
MVW6461 - Flute VI

**Course Title**
Flute VI

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission into MA in Music degree program and audition.

**Course Description**
Intensive advanced study of flute performance. May be used in the degree program a maximum of 4 times.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Odd Fall

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MVW6462 - Oboe VI

**Course Title**
Oboe VI

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission into MA in Music degree program and audition.

**Course Description**
Intensive advanced study of oboe performance. May be used in the degree program a maximum of 4 times.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Odd Fall
MVW6463 - Clarinet VI

**Course Title**
Clarinet VI

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission into MA in Music degree program and audition.

**Course Description**
Intensive advanced study of clarinet performance. May be used in the degree program a maximum of 4 times.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Odd Fall

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MVW6464 - Bassoon VI

**Course Title**
Bassoon VI

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission into MA in Music degree program and audition.

**Course Description**
Intensive advanced study of bassoon performance. May be used in the degree program a maximum of 4 times.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Odd Fall
**MVW6465 - Saxophone VI**

**Course Title**
Saxophone VI

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission into MA in Music degree program and audition.

**Course Description**
Intensive advanced study of saxophone performance. May be used in the degree program a maximum of 4 times.

**College**
College of Arts and Humanities

**Department**
Department of Music

**Terms of Offering**
Odd Fall

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**MVW6909 - Research Report**

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Music

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**MVW6918 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Music
MVW6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Arts and Humanities

**Department**
Department of Music

---

**NGR - Nursing Graduate**

NGR5003 - Advanced Health Assessment and Diagnostic Reasoning

**Course Title**
Advanced Health Assessment and Diagnostic Reasoning

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the M.S. in Nursing or Doctor of Nursing Practice program tracks or C.I.

**Corequisites**
- NGR 5003L.

**Course Description**
Concepts and skills of advanced health assessment over the lifespan. Application of the diagnostic reasoning process through differential diagnoses. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Practice

**Terms of Offering**
Every Semester

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2021-2022 Graduate Catalog
NGR5003L - Advanced Health Assessment and Diagnostic Reasoning Lab

Course Title
Advanced Health Assessment and Diagnostic Reasoning Lab

Credits Hours
1

Lab/Studio/Field Work Hours
1

Corequisites
NGR 5003. Admission to the M.S. in Nursing or Doctor of Nursing Practice tracks or C.I.

Course Description
Application of concepts and skills for advanced health assessment and diagnostic reasoning over the lifespan. May be used in the degree program a maximum of two times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Every Semester

Current Fee Per Student
$45.00

NGR5090 - Urgent Care for the Advanced Practice Nurse

Course Title
Urgent Care for the Advanced Practice Nurse

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
NGR 6240 or C.I. Advanced practice evaluation and management of clients in urgent care settings.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Occasional
NGR5141 - Pathophysiological Bases for Advanced Nursing Practice

Course Title
Pathophysiological Bases for Advanced Nursing Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to M.S. in Nursing or Doctor of Nursing Practice program or C.I.

Course Description
Critical examination of the physiological and pathophysiological mechanisms affecting individuals. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Every Semester

NGR5190 - Core Clinical Concepts for Nurse Educators

Course Title
Core Clinical Concepts for Nurse Educators

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Graduate Nursing Program or C.I; NGR 5141 or equivalent.

Course Description
Integrate concepts of Pharmacology and Health Assessment. Provides the foundation for Advanced Nursing Practice within the Nurse Educator role.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring
Fall
NGR5638 - Health Promotion

Course Title
Health Promotion

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
◆ Admission to M. S. in Nursing or Doctor of Nursing Practice or C.I.

Course Description
Exploration and analysis of concepts, theories, research evidence, clinical assessment and interventions for health promotion and wellness. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Every Semester

NGR5660 - Health Disparities: Issues and Strategies

Course Title
Health Disparities: Issues and Strategies

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
◆ Graduate standing.

Course Description
Explores disparities in access, utilization, services, outcomes, and status for different U.S. populations: data, research, programmatic issues, and strategies to close the gaps. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Occasional
NGR5690 - Interdisciplinary Care at End-of-Life

**Course Title**
Interdisciplinary Care at End-of-Life

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status or C.I.

**Course Description**
Examination of interdisciplinary roles and strategies for enabling patients, families, and caregivers to approach end-of-life free from avoidable distress and suffering. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Practice

**Terms of Offering**
Fall

NGR5720 - Organizational Dynamics

**Course Title**
Organizational Dynamics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Baccalaureate degree in Nursing or C.I.

**Course Description**
Analysis of organizational theories related to health care organizations and the use of leadership, communication, and power to influence health care delivery and policy. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Fall
NGR5800 - Theory for Advanced Practice Nursing

Course Title
Theory for Advanced Practice Nursing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Baccalaureate degree in Nursing or C.I.

Course Description
Conceptual and theoretical bases of nursing practice and research with emphasis on scholarly writing and critique. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring
Fall

NGR5871 - Health Care Informatics

Course Title
Health Care Informatics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Baccalaureate in health related field or C.I.

Course Description
Use of information systems, clinical data management, communication strategies, and decision-making models. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Fall
NGR5884 - Legal and Professional Behavior in Advanced Practice Nursing

Course Title
Legal and Professional Behavior in Advanced Practice Nursing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and admission to the M.S. in Nursing or Doctor of Nursing Practice program.

Course Description
Examination of legal, ethical, cultural, and political issues related to professional advanced practice nursing. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Every Semester

NGR5894C - International Perspectives of Global Health

Course Title
International Perspectives of Global Health

Credits Hours
3

Lab/Studio/Field Work Hours
1

Course Description
Graduate standing or C.I. An analysis of global health in comparison with that of USA and other nation's health care systems.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Occasional
NGR5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Nursing
Department
Department of Nursing

NGR5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Nursing
Department
Department of Nursing

NGR6063L - Advanced Skills for the Management of Illness and Injuries
Course Title
Advanced Skills for the Management of Illness and Injuries
Credits Hours
2
Lab/Studio/Field Work Hours
6
Prerequisites
- Admission to the Doctor of Nursing Practice program or a Nurse Practitioner certificate track.
Course Description
Development of theoretical, and clinical skills for the evaluation, diagnosis, and management of illnesses and injuries.
College
College of Nursing
Department
Department of Nursing Practice
Terms of Offering
Spring
Fall
Current Fee Per Student
$45.00
NGR6105 - Management of Symptoms and Outcomes of Disease

Course Title
Management of Symptoms and Outcomes of Disease

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Focused examination of the concepts, theories and research evidence that provide the basis for assessment and management of the patient experiences related to disease outcomes. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Summer

NGR6172 - Pharmacology for Advanced Nursing Practice

Course Title
Pharmacology for Advanced Nursing Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
NGR 5141 or C.I.

Course Description
Comprehensive study of medications used in the promotion and maintenance of health across the lifespan. Examination of the implications for advanced nursing practice. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Spring
Fall
NGR6175 - Critical Care Pharmacology

Course Title
Critical Care Pharmacology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
NGR 6172 - Pharmacology for Advanced Nursing Practice. Provides a general overview of the pharmacologic agents unique to the care of the critically ill and medically-complex unstable adult-gerontology client.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Every Semester

NGR6186 - Genetics and Genomics in Advanced Nursing Practice

Course Title
Genetics and Genomics in Advanced Nursing Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Baccalaureate degree in Nursing, NGR 5141 or approval of graduate coordinator or C.I.

Course Description
Application of genetics and genomic principles to advanced clinical nursing practice.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Every Semester
NGR6200 - Gender Related Primary Care

Course Title
Gender Related Primary Care

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Doctor of Nursing Practice program, Family Nurse Practitioner or Adult/Gerontology Nurse Practitioner track; completion of NGR 5003; NGR 5003L; NGR 5141.

Corequisites
- 6342L.

Course Description
Development of theoretical skills for evaluation, diagnosis, and management of the gender related health needs of men and women. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Fall

NGR6201 - Adult I Primary Care

Course Title
Adult I Primary Care

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the DNP program FNP or ANP track; completion of NGR 5003, NGR 5003L, NGR 5141, or C.I

Corequisites
- Adult I Primary Care Clinical, NGR 6172, or C.I.

Course Description
Development of theoretical skills for evaluation, diagnosis, and management of the primary care health needs of adults and communities. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Spring
NGR6201L - Adult I Primary Care Clinical

Course Title
Adult I Primary Care Clinical

Credits Hours
2

Lab/Studio/Field Work Hours
2

Corequisites
NGR 6201.

Course Description
Application of theory and skills for evaluation, diagnosis and management of the primary care health needs of adults and communities. Graded S/U. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Spring

NGR6202 - Adult II Primary Care

Course Title
Adult II Primary Care

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
NGR 6201, NGR 6201L

Corequisites
NGR 6202L.

Course Description
Development of theoretical foundation for the evaluation, diagnosis, and management of the complex health needs of adults. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Fall
NGR6202L - Adult II Primary Care Clinical

**Course Title**
Adult II Primary Care Clinical

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
9

**Prerequisites**
- Admission to the DNP program and completion of NGR 6201 and NGR 6201L or NGR 6240L.

**Course Description**
Development of theoretical and clinical skills for evaluation, diagnosis, and management of the complex and long-term needs of adults.

**College**
College of Nursing

**Department**
Department of Nursing Practice

**Terms of Offering**
Fall

NGR6210 - Adult-Gerontology Acute Care Nurse Practitioner I

**Course Title**
Adult-Gerontology Acute Care Nurse Practitioner I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- NGR 6172, NGR 5003/NGR 5003L.

**Corequisites**
- NGR 6230L or C.I.

**Course Description**
Introduce graduate nursing students to the foundational concepts in acute and critical care patient management.

**College**
College of Nursing

**Department**
Department of Nursing Practice

**Terms of Offering**
Every Semester
NGR6211 - Adult-Gerontology Acute Care Nurse Practitioner II

Course Title
Adult-Gerontology Acute Care Nurse Practitioner II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 6210, NGR 6230L; CR: NGR 6211L.

Course Description
Complex care of the stable and unstable adult-gerontology patient with complex cardiovascular, pulmonary, hematological, renal, and commonly occurring health care problems.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Fall

NGR6211L - Adult-Gerontology Acute Care Nurse Practitioner II Clinical

Course Title
Adult-Gerontology Acute Care Nurse Practitioner II Clinical

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- NGR 6210, NGR 6230L.

Corequisites
- NGR 6211.

Course Description
Complex clinical care of the stable and unstable adult-gerontology patient with complex cardiovascular, pulmonary, hematological, renal, and commonly occurring health care problems.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Every Semester
NGR6212 - Adult-Gerontology Acute Care Nurse Practitioner III

Course Title
Adult-Gerontology Acute Care Nurse Practitioner III

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 6211, NGR 6211L.

Corequisites
- NGR 6212L.

Course Description
Complex care of the stable and unstable adult-gerontology patient with complex endocrine, neurologic, gastrointestinal and commonly occurring health care problems in acutely and critically ill young, middle and older adults.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Every Semester

NGR6212L - Adult-Gerontology Acute Care Nurse Practitioner III Clinical

Course Title
Adult-Gerontology Acute Care Nurse Practitioner III Clinical

Credits Hours
3

Lab/Studio/Field Work Hours
3

Corequisites

Course Description
Complex clinical care of the stable and unstable adult-gerontology patient with common and complex occurring health care problems in acutely and critically ill young, middle and older adults.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Every Semester
NGR6215L - Adult-Gerontology Acute Care Nurse Practitioner Practicum

Course Title
Adult-Gerontology Acute Care Nurse Practitioner Practicum

Credits Hours
3

Lab/Studio/Field Work Hours
3

Course Description
Final clinical course covering care of the stable and unstable adult-gerontology patient with common and complex occurring health care problems in acutely and critically ill young, middle and older adults.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Every Semester

NGR6230L - Diagnostics and Skills for the Critically Ill

Course Title
Diagnostics and Skills for the Critically Ill

Credits Hours
2

Lab/Studio/Field Work Hours
2

Corequisites
NGR 6210.

Course Description
Introduce graduate nursing students to the skills and procedures used in the management of critically ill patients.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Every Semester
NGR6240 - Adult I for APNs

Course Title
Adult I for APNs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Doctor of Nursing Practice program, Nurse Practitioner certificate, Family Nurse Practitioner or Adult Gerontology Nurse Practitioner tracks, NGR 5003, NGR 5003L.

Corequisites
- NGR 6240L.

Course Description
Development of theoretical skills for evaluation, diagnosis, and management of health needs of adults and communities. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Spring

NGR6240L - Adult I Clinical for APNs

Course Title
Adult I Clinical for APNs

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to M.S. in Nursing program, Nursing certificate, Adult Nurse Practitioner or Family Nurse Practitioner track.

Corequisites
- NGR 6240.

Course Description
Application of skills for evaluation, diagnosis, and management of health needs of adults and communities.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Fall

2021-2022 Graduate Catalog
NGR6248L - Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum

**Course Title**

Family Nurse Practitioner/Adult-Gero Nurse Practitioner Practice Practicum

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

3

**Prerequisites**

- Admission to M.S. in Nursing, Doctor of Nursing Practice, Clinical Nurse Specialist or Nurse Practitioner certificate.

**Course Description**

Can be started concurrently with final clinical course in program of study. (Varies with plan of study.). Supervised advanced clinical practice in the roles of the nurse practitioner in an individualized preceptorship. May be used in the degree program a maximum of 2 times.

**College**

College of Nursing

**Department**

Department of Nursing Practice

**Terms of Offering**

Every Semester

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NGR6249 - Management of Common Health Problems of the Adult Patient

**Course Title**

Management of Common Health Problems of the Adult Patient

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- NGR 5141; NGR 5003 and NGR 5003L

**Course Description**

Analysis of current practices in management of adult patients. Incorporates diagnostic reasoning, nursing management, and evidence-based practices. May be used in the degree program a maximum of 2 times.

**College**

College of Nursing

**Department**

Department of Nursing Practice

**Terms of Offering**

Spring

Fall
NGR6263 - Gerontologic Care for APNs

Course Title
Gerontologic Care for APNs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Doctor of Nursing Practice program, Adult/Gerontology Clinical Nurse Specialist, Family Nurse Practitioner or Adult/Gerontology Nurse Practitioner track; and completion of NGR 5003, NGR 5003L, NGR 6201, and NGR 6240L, or C.I.

Corequisites
- NGR 6263L, or NGR 6264L.

Course Description
Development of the theoretical skills for evaluation, diagnosis and management of the health needs of older adults and communities.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Summer

NGR6263L - Gerontologic Care Clinical for NPs

Course Title
Gerontologic Care Clinical for NPs

Credits Hours
2

Lab/Studio/Field Work Hours
6

Prerequisites
- Admission to the Doctor of Nursing Practice program, Adult/Gerontology Clinical Nurse Specialist, Family Nurse Practitioner or Adult/Gerontology Nurse Practitioner track; and completion of NGR 5003, NGR 5003L, NGR 6201, and NGR 6240L, or C.I.

Corequisites
- NGR 6263.

Course Description
Development of clinical skills for evaluation, diagnosis, and management of the gerontologic health care needs common normal and abnormal variations in physical, cognitive, and psychologic states.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Summer
NGR6264L - Gerontologic Care Clinical for CNS

Course Title
Gerontologic Care Clinical for CNS

Credits Hours
2

Lab/Studio/Field Work Hours
2

Prerequisites
- NGR 6782 and NGR 6782L or C.I.

Corequisites
- 6263

Course Description
Development of Clinical Nurse Specialist skills in management of an elderly population with acute and chronic conditions. Graded S/U. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Summer

NGR6265 - Adult/Gerontology CNS I

Course Title
Adult/Gerontology CNS I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 5141; NGR 5003L; NGR 6874.

Course Description
Adult/Gerontology Clinical Nurse Specialist foundation. Role/scope of CNS; direct care/coaching focus. Health promotion and disease prevention across the adult lifespan. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring
NGR6265L - Adult/Gerontology CNS I Clinical

Course Title
Adult/Gerontology CNS I Clinical

Credits Hours
3

Lab/Studio/Field Work Hours
3

Corequisites
- NGR 6265.

Course Description
Introduction to Adult/Gerontology CNS role; emphasis on direct care, coaching, systems leadership for health promotion and managing common problems. Graded S/U. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring

NGR6266 - Adult/Gerontology CNS II

Course Title
Adult/Gerontology CNS II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 6265; NGR 6265L; NGR 6672; NGR 6801; NGR 5720.

Course Description
Continuation of Adult/Gerontology CNS I. Management of acute and/or complex problems; focus on research and ethical decision making. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Fall
NGR6266L - Adult/Gerontology CNS II Clinical

**Course Title**
Adult/Gerontology CNS II Clinical

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- NGR 6265; NGR 6265L

**Corequisites**
- NGR 6266.

**Course Description**
Continued development of Adult/Gerontology CNS role; emphasis on research, ethical decision making, and management of acute and chronic health problems.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Fall

NGR6267 - Adult/Gerontology CNS III

**Course Title**
Adult/Gerontology CNS III

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- NGR 6266; NGR 6266L

**Course Description**
Continuation of Adult/Gerontology CNS II. Management of acute and/or complex problems. Focus on collaboration, systems leadership, and consultation. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Spring
NGR6267L - Adult/Gerontology CNS III Clinical

Course Title
Adult/Gerontology CNS III Clinical

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- NGR 6266; NGR 6266L

Corequisites
- NGR 6267.

Course Description
Continued development of adult/gerontology Clinical Nurse Specialist role; emphasis on collaboration, systems leadership, consultation in management of acute and chronic problems.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring

NGR6305 - Pediatric Primary Care

Course Title
Pediatric Primary Care

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Doctor of Nursing Practice program, Family Nurse Practitioner track; completion of NGR 5003, NGR 5003L, or C.I.

Corequisites
- 6305L.

Course Description
Development of theoretical skills for evaluation, diagnosis, and management of the primary care needs of children and their families, including common normal and abnormal variations in physical, cognitive, and psychological development. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Summer
Spring
NGR6305L - Pediatric Primary Care Clinical

Course Title
Pediatric Primary Care Clinical

Credits Hours
2

Lab/Studio/Field Work Hours
2

Corequisites
- NGR 6305.

Course Description
Development of clinical skills for evaluation, diagnosis, and management of the primary care needs of children and their families, including common normal and abnormal variations in physical, cognitive, and psychological development. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Spring

NGR6331L - Pediatrics I Clinical for APNs

Course Title
Pediatrics I Clinical for APNs

Credits Hours
2

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to MSN program or nursing certificate, FNP or PNP track.

Corequisites
- NGR 6331.

Course Description
Evaluation diagnosis and management of the primary care needs of children and their families.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Spring
NGR6332L - Pediatrics II Clinical for APNs

Course Title
Pediatrics II Clinical for APNs

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to M.S. in Nursing program, Nursing certificate, Pediatric Nurse Practitioner track, NGR 6332.

Course Description
Evaluation, diagnosis, and management of the complex health needs of children and their families.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Fall

NGR6334 - Women's Health for APNs

Course Title
Women's Health for APNs

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to M.S. in Nursing program, Nursing certificate or track, NGR 5003, NGR 5003L, NGR 5141, NGR 6172.

Corequisites
- NGR 6342L (for Adult Nurse Practitioner and Family Nurse Practitioner tracks).

Course Description
Development of theoretical skills for evaluation, diagnosis, and management of women.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Summer
NGR6335L - Focused Pediatrics Clinical for APNs

Course Title
Focused Pediatrics Clinical for APNs

Credits Hours
1

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to M.S. in Nursing program, Nursing certificate, Pediatric Nurse Practitioner track, NGR 6331.

Course Description
Application of theory and skills for the in-depth developmental and physical assessment of children and their families.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Summer

NGR6342L - Women's Health for APNs Clinical

Course Title
Women's Health for APNs Clinical

Credits Hours
1

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to M.S. in Nursing program, Nursing certificate, Adult Nurse Practitioner or Family Nurse Practitioner track.

Corequisites
- NGR 6334.

Course Description
Application of skills for evaluation, diagnosis, and management of the health needs of women. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Summer
NGR6351 - Nursing Care of Children and Childbearing Women

**Course Title**
Nursing Care of Children and Childbearing Women

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- NGR 5141; NGR 5003 and NGR 5003L

**Corequisites**
- NGR 6801 or C.I.

**Course Description**
Analysis of nursing care of children and childbearing women. Incorporates diagnostic reasoning, nursing management, and evidence-based practices. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Practice

**Terms of Offering**
- Spring
- Fall

NGR6627 - Management of Common Health Problems of Communities

**Course Title**
Management of Common Health Problems of Communities

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- NGR 5141; NGR 5003 and NGR 5003L

**Course Description**
Analysis of current practices in management of communities. Incorporates diagnostic reasoning, nursing management, and evidence-based practices. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Practice

**Terms of Offering**
- Spring
- Fall
NGR6713 - Curriculum Development in Nursing Education

Course Title
Curriculum Development in Nursing Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admissions to M.S. in Nursing program or certificate of Nursing Education, or C.I.

Course Description
Analysis of external and internal influences affecting curriculum development for the nursing education. Examination of societal factors impacting nursing education. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Summer

NGR6714 - Clinical Teaching Strategies for Nursing

Course Title
Clinical Teaching Strategies for Nursing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 6791 or C.I.

Course Description
Synthesis of research-based literature and best practice in the development, implementation and evaluation of clinical education for nursing students. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Summer
NGR6715 - Application of Instructional Technology for Nursing Education

Course Title
Application of Instructional Technology for Nursing Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 6791 or C.I.

Course Description
Analysis of effective teaching and learning strategies with emphasis on developing techniques for teaching using instructional technology in nursing education. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring

NGR6717 - Introduction to Healthcare Simulation

Course Title
Introduction to Healthcare Simulation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to M.S. in Nursing or Nursing Certificate or C.I. Course applies pedagogical principles and knowledge of a range of technologies to developing healthcare simulation programs. Includes principles of educational evaluation.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Every Semester
NGR6718 - Evaluation in Nursing Education

**Course Title**
Evaluation in Nursing Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- NGR 6713; NGR 6791 or C.I.

**Course Description**
Analysis of the process of systematic evaluation of learning outcomes at individual, class and program levels. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Every Semester

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NGR6722 - Financial Management and Resource Development

**Course Title**
Financial Management and Resource Development

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to M.S. in Nursing or Doctor of Nursing Practice program or C.I.

**Course Description**
Overview of health care financing and economics at the macro and micro level and their influence on health care delivery, resource development and health policy. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Summer
NGR6723 - Nursing Leadership and Management

Course Title
Nursing Leadership and Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Science in Nursing, Doctor of Nursing Practice, Nursing Ph.D. program, or C.I.

Course Description
Analysis, synthesis and application of health care leadership principles including health and patient care, delivery systems, personnel management and finance, ethical, legal and regulatory requirements.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring
Fall

NGR6723L - Nursing Leadership Role Specialization Practicum

Course Title
Nursing Leadership Role Specialization Practicum

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- NGR 6723.

Course Description
Preceptor supervised experience with a nurse leader. Experience will focus on the analysis, synthesis and application of the principles related to leadership in the health care setting, including health care delivery systems, patient care delivery systems, staffing, personnel management, finance and ethical, legal and regulatory requirements.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring
Fall
NGR6758L - Clinical Nurse Specialist Advanced Practicum

**Course Title**
Clinical Nurse Specialist Advanced Practicum

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
4

**Prerequisites**
- NGR 6781.

**Course Description**
Supervised advanced clinical practice in the clinical nurse specialist role. Integration of practice, education, consultation, research and administrative roles.

**College**
College of Nursing

**Department**
Department of Nursing Practice

**Terms of Offering**
Spring

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NGR6771L - Healthcare Simulation Practicum

**Course Title**
Healthcare Simulation Practicum

**Credits Hours**
1 - 99

**Lab/Studio/Field Work Hours**
Jan-99

**Course Description**
NGR 6978 or C.I. Optional practicum course to prepare for roles in nursing and healthcare simulation design and evaluation.

**College**
College of Nursing

**Department**
Department of Nursing Practice

**Terms of Offering**
Every Semester
NGR6772L - Nurse Leadership and Management Internship

**Course Title**
Nurse Leadership and Management Internship

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- NGR 5720, NGR 5871, NGR 6722, NGR 6723, and NGR 6723L.

**Course Description**
Percepted advanced leadership and management experience focusing on analysis, synthesis and application of principles related to nurse lead administration of health care systems.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Spring
Fall

NGR6773L - CNL Residency

**Course Title**
CNL Residency

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- NGR 6777L, NGR 6775L, NGR 6776L and NGR 6813.

**Course Description**
Intensive clinical immersion in role of the clinical nurse leader. Graded S/U. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Practice

**Terms of Offering**
Spring
NGR6775L - CNL Resources and Outcomes

Course Title
CNL Resources and Outcomes

Credits Hours
1

Lab/Studio/Field Work Hours
1

Corequisites
- NGR 6105 and NGR 6722.

Course Description
Participation in clinical activities related to symptom and disease management and healthcare finance and resource utilization to improve patient outcomes.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Summer

NGR6776L - CNL Advocacy and Education

Course Title
CNL Advocacy and Education

Credits Hours
1

Lab/Studio/Field Work Hours
1

Corequisites
- NGR 5720.

Course Description
Participation in clinical activities related to organizational assessment, patient/staff education and advocacy, and professional development.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Fall
NGR6777L - CNL Quality and Safety

**Course Title**

CNL Quality and Safety

**Credits Hours**

1

**Lab/Studio/Field Work Hours**

1

**Corequisites**

- NGR 6874.

**Course Description**

Introduction to role of CNL in clinical setting; participation in clinical activities related to quality improvement and patient safety. Graded S/U. May be used in the degree program a maximum of 2 times.

**College**

College of Nursing

**Department**

Department of Nursing Practice

**Terms of Offering**

Spring

NGR6783 - Adult CNS II

**Course Title**

Adult CNS II

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- NGR 6172, NGR 6782, NGR 6782L, NGR 6263, NGR 6264L; C.I.

**Course Description**

Continuation of Adult Clinical Nurse Specialist I. Management of acute and/or complex patients. Clinical Nurse Specialist competencies of collaboration, consultation, systems leadership, and research. May be used in the degree program a maximum of 2 times.

**College**

College of Nursing

**Department**

Department of Nursing Practice

**Terms of Offering**

Fall
NGR6783L - Adult CNS II Clinical

Course Title
Adult CNS II Clinical

Credits Hours
2

Lab/Studio/Field Work Hours
2

Prerequisites
- NGR 6782 and NGR 6782L; NGR 6263; NGR 6264L

Corequisites
- NGR 6783.

Course Description
Continued development of the Clinical Nurse Specialist role. Emphasis on direct care, collaboration, consultation, systems leadership, and research. Graded S/U. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Fall

NGR6791 - Teaching Strategies for Nurse Educators

Course Title
Teaching Strategies for Nurse Educators

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to a graduate program in the College of Nursing or the graduate certificate in Nursing and Health Professional Education or C.I.

Course Description
Application of evidenced-based practice guidelines to the processes of teaching and learning. Analysis of external and internal influences affecting the educational process of health professionals. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Fall
NGR6794 - Organizational Leadership and Operations in Healthcare Simulation

Course Title
Organizational Leadership and Operations in Healthcare Simulation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
NGR 6717 or C.I. Prepares students with the knowledge and skills necessary to manage a simulation program in a healthcare environment.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Spring

NGR6801 - Research Methods

Course Title
Research Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 5800.

Course Description
Identify and critically appraise existing scientific evidence, and apply evidentiary findings to nursing practice, population or setting. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring
Fall
NGR6813 - Evidence Based Nursing Practice

**Course Title**
Evidence Based Nursing Practice

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- NGR 5800 and NGR 6801; must be in last 12 hours of M.S. in Nursing program or in Doctor of Nursing Practice plan of study.

**Course Description**
Apply research, theory and other evidence to advanced practice nursing. Processes for implementation, evaluation and synthesis of evidence-based nursing practice are included. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Every Semester

NGR6871 - Augmented, Virtual, and Mixed Realities in Healthcare

**Course Title**
Augmented, Virtual, and Mixed Realities in Healthcare

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Graduate Standing or C.I.

**Course Description**
Interdisciplinary examination of virtual, augmented, and mixed reality use in healthcare.

**College**
College of Nursing

**Department**
Department of Nursing Practice

**Terms of Offering**
Occasional
NGR6874 - Nursing Environment Management

Course Title
Nursing Environment Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to the M.S. in Nursing or Doctor of Nursing Practice track or C.I. In-depth analysis of the use of informatics, quality management, risk reduction and patient safety concepts and tools to promote improved patient outcomes for nursing care. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring

NGR6886 - Professional Ethics and Rational Decision Making in Medicine and Advanced Nursing

Course Title
Professional Ethics and Rational Decision Making in Medicine and Advanced Nursing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Graduate standing or C.I.

Course Description
An analysis of ethical theories that guide clinical, policy, and research decision-making in medicine and advanced nursing in a diverse society. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Summer
NGR6899 - The Practice of Global Health Care

**Course Title**
The Practice of Global Health Care

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to Graduate Nursing Program or C.I. An overview of health care from a global perspective, synthesizing the theory and practice of global health.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Every Semester

NGR6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Nursing

**Department**
Department of Nursing

NGR6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Nursing

**Department**
Department of Nursing
NGR6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Nursing
Department
Department of Nursing Systems

NGR6941 - Advanced Practice Practicum
Course Title
Advanced Practice Practicum
Credits Hours
1 - 99
Prerequisites
- Admission to M.S. in Nursing, Doctor of Nursing Practice, Clinical Nurse Specialist or Nurse Practitioner certificate.
Course Description
Can be started concurrently with final clinical course in program of study. (Varies with plan of study.). Supervised advanced clinical practice in the role of nurse practitioner in an individualized preceptorship.
College
College of Nursing
Department
Department of Nursing Practice
Terms of Offering
Every Semester
NGR6942C - Internship in Nursing Education

Course Title
Internship in Nursing Education

Credits Hours
4

Lab/Studio/Field Work Hours
3

Prerequisites
NGR 6351 or NGR 6627 or NGR 6249; and NGR 6945L.

Course Description
Application of principles of education through guided practice in classroom and clinical settings and assimilation of the nurse educator role. Graded S/U. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Every Semester

NGR6945L - Clinical Specialty Practicum

Course Title
Clinical Specialty Practicum

Credits Hours
1

Lab/Studio/Field Work Hours
1

Prerequisites
NGR 5141, NGR 5190, or C.I.

Course Description
Supervised clinical practice activities related to nursing care of common health problems of specific patient population. Graded S/U. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring
Fall
NGR6978 - Healthcare Simulation Capstone Project

Course Title
Healthcare Simulation Capstone Project

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 6794 or C.I.

Course Description
Preparation and testing of a healthcare simulation project using a multi-disciplinary team approach.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Summer
Fall

NGR7065 - Advanced Clinical Management for Advanced Practice Nursing

Course Title
Advanced Clinical Management for Advanced Practice Nursing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Corequisites
- NGR 7748L.

Course Description
Advanced diagnostic reasoning and analysis of clients with complex health maintenance, health promotion and illness management specific to speciality. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Fall
NGR7115 - Philosophical and Ethical Foundations of Nursing Science

**Course Title**
Philosophical and Ethical Foundations of Nursing Science

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Doctoral standing in College of Nursing or C.I.

**Course Description**
Analysis of the philosophical and ethical underpinnings of nursing science, linking it to the development of philosophy of science and personal philosophy.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Fall

NGR7123 - Theory in Nursing Science

**Course Title**
Theory in Nursing Science

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to a doctoral program in Nursing or C.I.

**Course Description**
This course examines the foundations and application of theory in nursing science.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Fall
NGR7163 - Illness as a Social Construct

Course Title
Illness as a Social Construct

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 7818 or C.I.

Course Description
Focused examination of concepts, theories, and research related to physical expression of disease and its link to individual psychosocial responses, beliefs, relationships and social environment. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing

Terms of Offering
Occasional

NGR7661 - Healthcare for Vulnerable Populations

Course Title
Healthcare for Vulnerable Populations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing in the College of Nursing or C.I.

Course Description
Health and healthcare issues of vulnerable populations and the influence of social, cultural, political and economic factors. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Fall
NGR7673 - Epidemiology Principles in Advanced Practice Nursing

Course Title
Epidemiology Principles in Advanced Practice Nursing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Doctor of Nursing Practice program or C.I.

Course Description
Advanced application of epidemiological concepts in community and public health practice, including disease surveillance, prevalence, prevention and statistical management of patient aggregate data. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Fall

NGR7748L - Advanced Clinical Practice Selective for Advanced Practice Nursing

Course Title
Advanced Clinical Practice Selective for Advanced Practice Nursing

Credits Hours
1 - 3

Lab/Studio/Field Work Hours
3-Jan

Prerequisites
- NGR 7176

Corequisites
- NGR 7065.

Course Description
Clinical management of clients with complex health maintenance, health promotion and illness management needs. Graded S/U. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Fall
NGR7778L - Advanced Leadership Selective for DNP

**Course Title**
Advanced Leadership Selective for DNP

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Admission to the Doctor of Nursing Practice, Executive Doctor of Nursing Practice track or C.I.

**Course Description**
Application of evidence-based management processes to support decision making in the health care environment. Graded S/U. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Fall

NGR7779C - Program Development and Management for DNP

**Course Title**
Program Development and Management for DNP

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission to the Doctor of Nursing Practice, Executive Doctor of Nursing Practice track or C.I.

**Course Description**
Application of inquiry, critical thinking and strategic planning skills related to project planning, management, evaluation and dissemination. Graded S/U. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Fall
NGR7793 - Leadership and Economics in Advanced Practice Nursing

Course Title
Leadership and Economics in Advanced Practice Nursing

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 7891.

Course Description
Advanced analysis of change management, leadership theories/strategies, finance and resource management and the health care systems and economic structures in Advanced Practice Nursing.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Summer

NGR7805 - Doctoral Scholarship

Course Title
Doctoral Scholarship

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Ph.D. track or C.I.

Course Description
An introduction to doctoral scholarship in support of beginning a program of research. Includes responsible conduct of science and research ethics consideration. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Every Semester
NGR7806 - Doctoral Scholarship II

**Course Title**
- Doctoral Scholarship II

**Credits Hours**
- 3

**Lab/Studio/Field Work Hours**
- 0

**Prerequisites**
- NGR 7805 or C.I.

**Course Description**
A continuation of Doctoral Scholarship with an emphasis on synthesizing the research and theoretical literature related to the students area of research. May be used in the degree program a maximum of 2 times.

**College**
- College of Nursing

**Department**
- Department of Nursing Systems

**Terms of Offering**
- Summer

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NGR7807 - Research Approaches and Designs for Nursing and Healthcare

**Course Title**
- Research Approaches and Designs for Nursing and Healthcare

**Credits Hours**
- 3

**Lab/Studio/Field Work Hours**
- 0

**Prerequisites**
- Doctoral standing in the College of Nursing or C.I.

**Course Description**
Quantitative and qualitative approaches to studying nursing and health related phenomena; ethical issues; internal and external validity; comparison of designs. May be used in the degree program a maximum of 2 times.

**College**
- College of Nursing

**Department**
- Department of Nursing Systems

**Terms of Offering**
- Fall
NGR7808 - Qualitative Methods in Nursing and Healthcare II

**Course Title**
Qualitative Methods in Nursing and Healthcare II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- NGR 7815 Qualitative Methods I or equivalent or C.I.

**Course Description**
Application of qualitative methodologies for in-depth study of nursing and health-related phenomena; hands-on experience with data collection, analysis, and interpretation. May be used in the degree program a maximum of 2 times.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Fall

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NGR7812 - Advanced Study Design and Methods

**Course Title**
Advanced Study Design and Methods

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- NGR 7807; NGR 7817; NGR 7815; and NGR 7818 or NGR 7808; or C.I.

**Course Description**
Identify and discuss evolving trends in advanced research design and methods as they apply to the development of nursing research programs.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Spring
NGR7815 - Qualitative Methods in Nursing Research and Healthcare I

Course Title
Qualitative Methods in Nursing Research and Healthcare I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing in the College of Nursing or C.I.

Course Description
Knowledge of qualitative research designs and methods for studying nursing and health-related phenomena. Course may be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Fall

NGR7817 - Quantitative Methods for Nursing and Healthcare I

Course Title
Quantitative Methods for Nursing and Healthcare I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 7807 or C.I.

Course Description
Designing quantitative studies and related statistical analysis; maximizing statistical power; ethical issues related to nursing research. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Fall

2021-2022 Graduate Catalog
NGR7818 - Quantitative Methods for Nursing and Healthcare II

Course Title
Quantitative Methods for Nursing and Healthcare II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 7817 Quant Methods I or its equivalent or C.I.

Course Description
Advanced research designs; multivariate and biostatistical data analysis in nursing and health related research. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring

NGR7820 - Innovative Technologies in Healthcare

Course Title
Innovative Technologies in Healthcare

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing in the College of Nursing or C.I.

Course Description
Application of innovative technologies in healthcare to research, teaching and practice. Legal, ethical and cultural issues related to technology transfer. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Summer
NGR7823 - Psychometrics and Measurement for Nursing Research

Course Title
Psychometrics and Measurement for Nursing Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 7817, NGR 7815, or C.I.

Course Description
Developing, testing and applying measurement theory in physiological and psycho social research analysis of psychometric properties of instruments and methods appropriate to theoretical perspectives and scientific rigor. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Fall

NGR7827 - Concepts, Measurement, and Data Management

Course Title
Concepts, Measurement, and Data Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Doctor of Nursing Practice program, NGR 6813 or equivalent, C.I.

Course Description
Identification, analysis, and measurement of concepts; analysis and management of clinical data. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring
NGR7855C - Evidence-Based Practice Development for DNP

Course Title
Evidence-Based Practice Development for DNP

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to the Doctor of Nursing Practice, Executive Doctor of Nursing Practice track or C.I.

Course Description
Critique and synthesis of evidence for practice related questions. Includes analysis of the context where evidence will be applied. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Spring
Fall

NGR7892 - Healthcare Systems and Policy

Course Title
Healthcare Systems and Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing in the College of Nursing or C.I.

Course Description
Underpinnings of healthcare policy; healthcare policy formation and change agency; influences on healthcare systems; related analysis and research. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring
NGR7911C - Doctoral Project I

Course Title
Doctoral Project I

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- Doctoral standing in the College of Nursing or C.I.

Course Description
Identification of a practice-based problem, integration of existing evidence to propose a project to address the problem. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Fall

NGR7912C - Doctoral Project 2

Course Title
Doctoral Project 2

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- NGR 7911C - Doctoral Project I, Doctoral standing in the College of Nursing or C.I.

Course Description
Implementation of a DNP Committee approved practice based project to address a health care problem. May be used in the degree program a maximum of 2 times.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Spring
NGR7913 - Doctoral Project 3

**Course Title**

Doctoral Project 3

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- NGR 7912C - Doctoral Project 2, Doctoral standing in the College of Nursing or C.I.

**Course Description**

Completion of implementation, analysis of data, final paper approval and public presentation of DNP project.

**College**

College of Nursing

**Department**

Department of Nursing Systems

**Terms of Offering**

Every Semester

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NGR7916 - Research Grants Process and Proposal Writing

**Course Title**

Research Grants Process and Proposal Writing

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Doctoral standing or C.I.

**Course Description**

Grants process include writing elements of research proposal for HIH R-series applications and strategies for successful proposal preparation. May be used in the degree program a maximum of 2 times.

**College**

College of Nursing

**Department**

Department of Nursing Systems

**Terms of Offering**

Occasional
NGR7919 - Doctoral Research  
**Course Title**  
Doctoral Research  

**Credits Hours**  
1 - 99  

**College**  
College of Nursing  

**Department**  
Department of Nursing Systems  

NGR7932 - Nursing Research Grants Process and Proposal Writing  
**Course Title**  
Nursing Research Grants Process and Proposal Writing  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Course Description**  
NGR 7916. The second of a Nursing two-course series on development and funding of programs of research; focuses on refinement of student research trajectories and grantsmanship for small research grant funding.  

**College**  
College of Nursing  

**Department**  
Department of Nursing Systems  

**Terms of Offering**  
Spring  

NGR7939C - Special Topics  
**Course Title**  
Special Topics  

**Credits Hours**  
1 - 99  

**College**  
College of Nursing  

**Department**  
Department of Nursing Systems
NGR7942L - DNP Professional Practice Immersion

Course Title
DNP Professional Practice Immersion

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
Jan-99

Course Description
Doctoral standing in the College of Nursing or C.I. Sponsored student immersion in a professional practice setting to promote advanced nursing leadership needs assessment, evaluation of public policy and design of care delivery models.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Every Semester

NGR7948L - Doctor of Nursing Practice Residency

Course Title
Doctor of Nursing Practice Residency

Credits Hours
1 - 99

Lab/Studio/Field Work Hours
Jan-99

Prerequisites
NGR 7065; NGR 7748L.

Course Description
Clinical management of clients with complex health maintenance, health promotion and illness management needs focusing on a continuum of care within health care systems or organizations. There is a 6 hour requirement.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Summer
Spring
NGR7952 - Scientific Writing for Nurses and Healthcare Professionals

Course Title
Scientific Writing for Nurses and Healthcare Professionals

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Graduate Nursing or Healthcare related discipline. Identify, discuss, and practice effective scientific writing elements as they apply to nursing and healthcare related disciplines; prepare a scientific manuscript for publication.

College
College of Nursing

Department
Department of Nursing Systems

Terms of Offering
Fall

NGR7974 - Doctor of Nursing Practice Project

Course Title
Doctor of Nursing Practice Project

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
NGR 7176; NGR 7673, NGR 7115; NGR 7817; NGR 7123; NGR 7892; NGR 6874.

Course Description
Analyze health care needs, develop an evidence based intervention and evaluate outcomes for a specific population within an identified health care setting.

College
College of Nursing

Department
Department of Nursing Practice

Terms of Offering
Even Spring
Odd Summer
NGR7976L - Executive DNP Residency

**Course Title**
Executive DNP Residency

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Course Description**
NGR 7911C, NGR 7912C. Implementation of the Executive DNP Project.

**College**
College of Nursing

**Department**
Department of Nursing Systems

**Terms of Offering**
Every Semester

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OSE - Optical Sciences

OSE5041 - Introduction to Wave Optics

**Course Title**
Introduction to Wave Optics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EEL 4440 or PHY 4424 or C.I.

**Course Description**
Electromagnetic foundation of light waves as applied to reflection, diffraction, interference, polarization, coherence, and guided waves.

**College**
College of Optics and Photonics

**Department**
College of Optics and Photonics

**Terms of Offering**
Occasional
OSE5115 - Interference and Diffraction

Course Title
Interference and Diffraction

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admitted to a graduate program in Optics, Physics or Electrical Engineering, or C.I.

Course Description
Interference of light, optical interferometry, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Spring
Fall

OSE5203 - Geometrical Optics

Course Title
Geometrical Optics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admitted to a graduate program in Optics, Physics or Electrical Engineering, or C.I.

Course Description

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Spring
Fall
OSE5312 - Light Matter Interaction

Course Title
Light Matter Interaction

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
∇ Graduate standing or C.I.

Course Description
Microscopic theory of absorption, dispersion, and refraction of materials; classical and quantum mechanical description of optical properties.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Spring
Fall

OSE5414 - Fundamentals of Optoelectronic Devices

Course Title
Fundamentals of Optoelectronic Devices

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
∇ Graduate standing or C.I.

Course Description
Operation, methods of fabrication, applications, and limitations of various optoelectronic devices including quantum well semiconductor devices.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Fall
OSE5525 - Laser Engineering

Course Title
Laser Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Principles of laser amplification and oscillations; design of lasers; general characteristics of excitation systems.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Summer
Spring

OSE5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Optics and Photonics

Department
College of Optics and Photonics

OSE5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Optics and Photonics

Department
College of Optics and Photonics
OSE6111 - Optical Wave Propagation

**Course Title**
Optical Wave Propagation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Optical propagation of light waves as applied to isotropic, anisotropic, and inhomogeneous media, guided waves and Gaussian beams.

**College**
College of Optics and Photonics

**Department**
College of Optics and Photonics

**Terms of Offering**
- Spring
- Fall

OSE6120 - Theoretical Foundations of Optics

**Course Title**
Theoretical Foundations of Optics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Mathematical concepts used in Optics. Topics covered include linear algebra, orthogonal expansions of functions, Fourier transforms, ordinary differential equations, and partial differential equations.

**College**
College of Optics and Photonics

**Department**
College of Optics and Photonics

**Terms of Offering**
- Fall
OSE6125 - Computational Photonics

Course Title

Computational Photonics

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- Graduate standing, OSE 6111 or C.I.

Course Description

Computational methods for photonic guided wave structures, periodic structures, and integrated photonic structures and devices.

College

College of Optics and Photonics

Department

College of Optics and Photonics

Terms of Offering

Spring

OSE6143 - Fiber Optics Communication System

Course Title

Fiber Optics Communication System

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- Graduate standing and OSE 6111 and OSE 6474 or C.I.

Course Description

Use of fiber optics as a communication channel. Principles of fiber optics. Mode theory, transmitters, modulators, sensors detectors and demodulators.

College

College of Optics and Photonics

Department

College of Optics and Photonics

Terms of Offering

Spring
OSE6211 - Imaging and Optical Systems

**Course Title**
Imaging and Optical Systems

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admitted to a graduate program in Optics, Physics or Electrical Engineering, or C.I.

**Course Description**
Linear systems theory of discrete and continuous one- and two-dimensional systems. Applications to optical polarization, pulse propagation, and image formation.

**College**
College of Optics and Photonics

**Department**
College of Optics and Photonics

**Terms of Offering**
Spring
Fall

OSE6234C - Applied Optics Laboratory

**Course Title**
Applied Optics Laboratory

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Graduate standing and OSE 5203 or C.I.

**Course Description**
Laboratory Techniques for observing optical phenomena and quantitative experimental study of geometrical optics, optical interferometry, diffraction, and image processing.

**College**
College of Optics and Photonics

**Department**
College of Optics and Photonics

**Terms of Offering**
Spring
OSE6242 - Infrared Systems

Course Title
Infrared Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• GS in Electrical Engineering, or GS in Optics and Photonics, or C.I.

Course Description
This course provides the background, theory, and practice of how to design, analyze, and test high performance infrared imaging systems.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Fall

OSE6265 - Optical Systems Design

Course Title
Optical Systems Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• Graduate Standing and OSE 5203 or C.I.

Course Description
Design principles of lens and mirror optical systems; evaluation of designs using computer techniques.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Occasional
OSE6313 - Materials for Optical Systems

Course Title
Materials for Optical Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Course reviews attributes of optical materials, physical properties and structural origin to predict performance and limitations of optical materials devices and components in optical systems.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Occasional

OSE6314 - Optics of Low Dimensional Semiconductors

Course Title
Optics of Low Dimensional Semiconductors

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and OSE 5312 or C.I.

Course Description
Optical properties and semiconductor physics of low-dimensional systems (quantum wells, wires, and dots), nano-photonic devices, and future nano-optical concepts.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Spring
OSE6315 - Liquid Crystal Materials and Devices

**Course Title**
Liquid Crystal Materials and Devices

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Basic liquid crystal materials and their physical, optical, and electro-optic properties; photonic devices for amplitude and phase modulations.

**College**
College of Optics and Photonics

**Department**
College of Optics and Photonics

**Terms of Offering**
Occasional

OSE6319 - Optical Waves and Materials

**Course Title**
Optical Waves and Materials

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Reviews Optics and material properties important for propagation and control of light. This is a review course in preparation for the Ph.D. Qualifying Exam.

**College**
College of Optics and Photonics

**Department**
College of Optics and Photonics

**Terms of Offering**
Occasional
OSE6330 - Stimulated and Holographic Scattering

Course Title
Stimulated and Holographic Scattering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
The study of those processes in Nonlinear Optics, which are characterized by propagation of light in the media with the size considerably larger than the wavelength.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Occasional

OSE6334C - Nonlinear Optics

Course Title
Nonlinear Optics

Credits Hours
3

Lab/Studio/Field Work Hours
0.5

Prerequisites
- Graduate standing and OSE 6111 or C.I.

Course Description
Maxwell’s equations in nonlinear media, frequency conversion techniques (SHG, SFG, OPO), stimulated scattering, phase conjugation, wave-guided optics, nonlinear crystals.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Spring
OSE6335 - Nonlinear Guided Wave Optics

Course Title
Nonlinear Guided Wave Optics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and OSE 6334C or C.I.

Course Description
The physics and applications of nonlinear optical interactions in fibers and planar waveguides is discussed, including parametric processes, all-optical effects and solutions.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Even Fall

OSE6347 - Quantum Optics

Course Title
Quantum Optics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and OSE 5312 or C.I.

Course Description
Semiclassical treatment of light/matter interactions (quantized atomic states plus Maxwell's equations). Density matrix theory, coherent optical transients, pulse propagation.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Even Spring
OSE6349 - Applied Quantum Mechanics for Optics and Engineering

Course Title
Applied Quantum Mechanics for Optics and Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Presents the elements of quantum mechanics that are essential for understanding many areas in modern optics and photonics.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Fall

OSE6416 - Organic Photonics

Course Title
Organic Photonics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing, C.I. The course reviews optic and electronic properties inorganic molecules and polymers that are critical for photonic and opto-electronic applications.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Spring
OSE6421 - Integrated Photonics

**Course Title**
Integrated Photonics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**

- Graduate standing, OSE 6111 or C.I.

**Course Description**
Reviews working principle, system functionality and design and fabrication issues of semiconductor integrated photonic devices and circuits for optical telecommunication and interconnect applications.

**College**
College of Optics and Photonics

**Department**
College of Optics and Photonics

**Terms of Offering**
Spring

OSE6432 - Guided Waves and Optoelectronics

**Course Title**
Guided Waves and Optoelectronics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**

- Graduate standing and OSE 6111 or OSE 5041 or C.I.

**Course Description**
Principles of guided wave optics, electro-optics, acousto-optics and optoelectronics.

**College**
College of Optics and Photonics

**Department**
College of Optics and Photonics

**Terms of Offering**
Summer
Spring
OSE6445 - Fundamentals of Ultrafast Optics

Course Title
Fundamentals of Ultrafast Optics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, and OSE 6111 or PHY 5346, and OSE 5525, or C.I.

Course Description

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Spring

OSE6447 - Attosecond Optics

Course Title
Attosecond Optics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing, and OSE 6349 or PHY 5606, and OSE 6111 or PHY 5346 or OSE 5525, or C.I. Introduction of the forefront of attosecond optics research. Topics include the fundamental theories and latest journal publications.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Fall
OSE6455C - Photonics Laboratory

**Course Title**
Photonics Laboratory

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Graduate standing, and OSE 5414 and OSE 6474, or C.I.

**Course Description**
Experimental study of photonic devices and systems including liquid crystal displays, fiber-optic sensors, laser diodes, electro optic modulation, acousto-optic modulation, lightwave detection, optical communications, and photonic signal processing.

**College**
College of Optics and Photonics

**Department**
College of Optics and Photonics

**Terms of Offering**
Even Fall
Odd Spring

OSE6474 - Fundamentals Optical Fiber Communications

**Course Title**
Fundamentals Optical Fiber Communications

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate Standing; OSE 6111, or C.I.

**Course Description**
GS; OSE 6111, or C.I. Introduces key principles and analysis of optical communication systems. Emphasis on developing the ability to analyze and design digital, analog fiber-based systems and networks.

**College**
College of Optics and Photonics

**Department**
College of Optics and Photonics

**Terms of Offering**
Spring
OSE6526C - Laser Engineering Laboratory

Course Title
Laser Engineering Laboratory

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Graduate standing and OSE 5525 or C.I.

Course Description
Designing and device implementation of diode pumped solid-state lasers, nonlinear frequency conversion, Q-switching, mode locking, and pulse second harmonic generation.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Summer

OSE6527 - Fiber Lasers

Course Title
Fiber Lasers

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
GS and OSE 5525, and OSE 6432 or OSE 6474. This course combines an introduction to fiber lasers with detailed technical discussions based on reviews of recent progress and latest developments in fiber laser research.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Even Fall
OSE6536 - Semiconductor Lasers

Course Title
Semiconductor Lasers

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and OSE 5414 or C.I.

Course Description
Light-matter interaction, thermal physics and solid state physics to understand, analyze, and engineer semiconductor lasers with different active region dimensionalities.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Spring

OSE6615L - Optoelectronic Device Fabrication Laboratory

Course Title
Optoelectronic Device Fabrication Laboratory

Credits Hours
3

Lab/Studio/Field Work Hours
6

Prerequisites
- Graduate standing or C.I.

Course Description
Design and micro-fabrication of semiconductor optoelectronics devices including passive waveguides, light emitting diodes (LEDs), laser diodes (LDs), photodetectors and electro-optic modulators.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Fall
OSE6650 - Optical Properties of Nanostructured Materials

Course Title
Optical Properties of Nanostructured Materials

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing OSE 6111, OSE 5312, or C.I.

Course Description
Theory and application of nanostructured optical materials: Effective medium theory, nanostructured surfaces, plasmon waveguides, nanophotonic circuits, metallic near-field lenses, collective modes in nanoparticle arrays, metamaterials.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Spring

OSE6820 - Flat Panel Displays

Course Title
Flat Panel Displays

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Liquid crystal display, projection display, micro display, plasma display, light emitting diodes, organic light emitting display, and field emission display.

College
College of Optics and Photonics

Department
College of Optics and Photonics

Terms of Offering
Occasional
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits Hours</th>
<th>College</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSE6908</td>
<td>Special Topics</td>
<td>1 - 99</td>
<td>College of Optics and Photonics</td>
<td>College of Optics and Photonics</td>
</tr>
<tr>
<td>OSE6909</td>
<td>Research Report</td>
<td>1 - 99</td>
<td>College of Optics and Photonics</td>
<td>College of Optics and Photonics</td>
</tr>
<tr>
<td>OSE6938</td>
<td>ST: Infrared Detectors</td>
<td>3</td>
<td>College of Optics and Photonics</td>
<td>College of Optics and Photonics</td>
</tr>
</tbody>
</table>

**Course Description**

OSE6938 - ST: Infrared Detectors

Discusses major types of infrared detectors including thermal, photoconductors, photovoltaic, and photodiodes. Emphasis on modern staring-infrared-focal-plane design. Review of design and measurement of detector properties that contribute to detector sensitivity.

**College**

College of Optics and Photonics

**Department**

College of Optics and Photonics
OSE6971 - Special Topics
Course Title
Special Topics
Credits Hours
1 - 99
College
College of Optics and Photonics
Department
College of Optics and Photonics

OSE7919 - Research
Course Title
Research
College
College of Optics and Photonics
Department
College of Optics and Photonics
Terms of Offering
Every Semester

OSE7980 - Dissertation
Course Title
Dissertation
Credits Hours
1 - 99
College
College of Optics and Photonics
Department
College of Optics and Photonics

PAD - Public Administration
PAD5041 - Ethics and Values in Public Administration

Course Title
Ethics and Values in Public Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Examination of ethics in the public sector. Public concerns, past patterns, and individual/social aspects of ethical behavior are explored.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

PAD5145 - Volunteerism in Nonprofit Management

Course Title
Volunteerism in Nonprofit Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Admission to Master of Nonprofit Management degree, Nonprofit certificate or C.I.

Course Description
Volunteer development in nonprofit organizations, including board selection, development and leadership, volunteer recruitment, training, retention and theories of motivation, leadership, ethical issues.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall
PADS146 - Nonprofit Resource Development

Course Title
Nonprofit Resource Development

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Nonprofit Management, Certificate in Nonprofit Management, Certificate in Fundraising or C.I.

Course Description
Examines human resource development and financial resource development in nonprofit organizations including management issues.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PADS185 - Foundations of Social Justice for Public Service

Course Title
Foundations of Social Justice for Public Service

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Graduate standing.

Course Description
The course provides an overview and foundation for understanding the roots of some of today's most complex public management social problems.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall
PADS186 - Policy Advocacy for Social Justice

Course Title
Policy Advocacy for Social Justice

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Graduate standing.

Course Description
Community-based policy advocacy seeks to strengthen group solidarity to promote change. Policy analysis and interpersonal skills to mobilize groups and communities are examined.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PADS336 - Introduction to Urban Planning

Course Title
Introduction to Urban Planning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Science in Urban and Regional Planning, or Master of Public Administration, or Master of Nonprofit Management, or Certificate in Emergency Management and Homeland Security, or Certificate in Urban and Regional Planning, or C. I.

Course Description
Issues of urbanization, regional development, land use and comprehensive planning, environmental planning, and social planning.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Fall
PAD5337 - Urban Design

Course Title
Urban Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Science in Urban and Regional Planning, or Master of Public Administration, or Master of Nonprofit Management, or Certificate in Urban and Regional Planning, or C. I.

Course Description
Planning techniques such as planned unit developments, capital improvements planning, and growth management, and planning methods, including needs assessment and graphic design.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Fall

PAD5338 - Land Use and Planning Law

Course Title
Land Use and Planning Law

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Science in Urban and Regional Planning, or Master of Public Administration, or Master of Nonprofit Management, or Certificate in Emergency Management and Homeland Security, or Certificate in Urban and Regional Planning, or C. I.

Course Description
Review of national and local aspects of the legal underpinnings of urban planning aspects such as zoning, growth management, and environmental regulation.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
PAD5356 - Managing Community and Economic Development

Course Title
Managing Community and Economic Development

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Science in Urban and Regional Planning, or Master of Public Administration, or Master of Nonprofit Management, or Certificate in Emergency Management and Homeland Security, or Certificate in Urban and Regional Planning, or C. I.

Course Description
Overview of economic development activities focusing on policy and managerial issues at the local level.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring

PAD5425 - Dispute Resolution in the Public Sector

Course Title
Dispute Resolution in the Public Sector

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
An examination of the skills needed to resolve disputes in the public sector through facilitation, mediation, and other alternative methods.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional
PAD5807 - Local Government Operations

Course Title
Local Government Operations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Operational Functions of municipal and county governments and the role of the chief executive officer.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

 PAD5850 - Grant and Contract Management

Course Title
Grant and Contract Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Admission to the Master of Nonprofit Management, or Master of Research Administration, Certificate in Nonprofit Management, Certificate in Emergency Management and Homeland Security, Certificate in Public Administration, or Certificate in Fundraising, or C.I.

Course Description
Study of government or public nonprofit agency grant and contract administration and management responding to funding assistance solicitations and grant and contract preparation, evaluation, and presentation.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall
PAD5855 - Introduction to Public Procurement

Course Title
Introduction to Public Procurement

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Public Administration, or Master of Nonprofit Management, or C. I.

Course Description
Acquisition of knowledge and skills relating to the public procurement process.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

PAD5887 - Energy Policy

Course Title
Energy Policy

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Graduate Student or C.I.

Course Description
This course will address the history and future of energy technology trajectories, and the interaction of policy, economics, politics, and institutions on these developments. Particular emphasis will be on clean energy and air pollution policies in the US, but this course will also review transportation, environmental, and resource policies along with international agreements and fossil-based sources of energy.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Every Semester
PAD5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Public Administration

PAD5930 - Global Cities

Course Title
Global Cities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Master student in the School of Public Administration.

Course Description
The course seeks to understand the interdependencies that define living conditions for residents in the world's interconnected global cities. Monetary, material, energy, vehicle and information flows continuously transform the city's built environment, livability, employment opportunities, and cultural practices. Sustainability, resilience to environmental changes, social cohesion, effective governance and innovation are key desirable outcomes for global city residents.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Every Semester

PAD5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Public Administration
PAD6035 - Public Administration in the Policy Process

Course Title
Public Administration in the Policy Process

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Public Administration, or Master of Science in Urban and Regional Planning, or Certificate in Public Administration, or Certificate in Police Leadership, or C. I.

Course Description
Analysis of the role of the public administrator in the analysis, formulation, implementation, and evaluation of public policies, especially at the state and local levels.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Every Semester

PAD6036 - Change Management in Public Organizations

Course Title
Change Management in Public Organizations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Human and political dimensions of change within public organizations; applications of strategic management, budgeting, organizational culture, public policy and performance to organizational change.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional
PAD6037 - Public Organization Management

Course Title
Public Organization Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Master of Public Administration, or Certificate in Public Administration, or Certificate in Emergency Management and Homeland Security, or Certificate in Police Leadership, or C. I.

Course Description
Structure, functioning, performance of public organizations; behavior of individuals and groups; application for public management, includes both macro and micro approaches to organizational behavior.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PAD6053 - Public Administrators in the Governance Process

Course Title
Public Administrators in the Governance Process

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Master of Public Administration, or Master of Science in Urban and Regional Planning, or Certificate in Public Administration, or C. I. An examination of the political, social, economic, and moral context of modern public administration, with special attention to the ethical dimensions of the administrator's role.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Every Semester
PAD6062 - Advanced Concepts and Applications in Public Administration

Course Title
Advanced Concepts and Applications in Public Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PAD 6035, PAD 6037, PAD 6053, PAD 6227, PAD 6417 and PAD 6701 or C.I.

Course Description
An integrative course applying the skills, knowledge, and values considered in the program to selected public problems.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PAD6086 - Advanced Concepts and Applications in Emergency and Crisis Management

Course Title
Advanced Concepts and Applications in Emergency and Crisis Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- All core courses in Master of Emergency and Crisis Management.

Course Description
Combines knowledge and skills gained and applies them in an integrative manner to challenges facing emergency managers today. Provides a foundation to be an effective leader in emergency management.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Every Semester
PAD6142 - Nonprofit Organizations

**Course Title**
Nonprofit Organizations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to Master of Nonprofit Management, or Master of Science in Urban and Regional Planning, or Certificate in Nonprofit Management, or Certificate in Fundraising, or Certificate in Emergency Management and Homeland Security, or C.I. Synthesis of best practices and research literature in nonprofit organization management. Instruction method is simulation where students act as nonprofit organization Board Members developing policies and procedures.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Spring
Fall

PAD6149 - Nonprofit Administration

**Course Title**
Nonprofit Administration

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Master in Nonprofit Management or Graduate Certificate and PAD 5145, PAD 5146, PAD 6142, PAD 6208 and PAD 6335 or C.I.

**Course Description**
Provides an overview of nonprofit leadership and board development, focusing on the ethical, legal and administrative responsibilities of those individuals responsible for nonprofit management.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration
PAD6167 - Graduate Nonprofit Leadership Seminar

Course Title
Graduate Nonprofit Leadership Seminar

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Nonprofit Management or Nonprofit certificate program and C.I.

Course Description
Discussion and activity-based course exploring nonprofit competencies to prepare students for management and leadership positions in human services.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Odd Fall

PAD6200 - International Emergency and Crisis Management

Course Title
International Emergency and Crisis Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Master student in the School of Public Administration.

Course Description
This course will engage students to the world of crises, disasters, and emergencies. They devastate, injure, and kill, wherever they occur, but when they strike the least among us, the devastation, the injuries, and the fatalities increase exponentially. Students are expected to complete the course with a well-defined mental map - a map that will guide your understanding of new crises, disasters, and emergencies as they increase in frequency and intensity around the world. We want you to be both engaged and thoughtful observers and participants in the WORLD of emergency management.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Every Semester
PAD6207 - Public Financial Management

Course Title
Public Financial Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PAD 6227 and PAD 6700, or C.I.

Course Description
Survey of financial management functions in local government, such as accounting, fund structures, debt and case management, and financial reporting.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PAD6208 - Nonprofit Financial Management

Course Title
Nonprofit Financial Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Master of Nonprofit Management, or Certificate in Nonprofit Management, or Certificate in Fundraising or C.I. Financial management in nonprofit organizations, including nonprofit funding, budgeting policies and procedures, orientation of department managers to budgeting, estimating income and expenses, and ethical implications of budgeting and finance.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall
PAD6227 - Public Budgeting

Course Title
Public Budgeting

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Public Administration, or Master of Emergency and Crisis Management, or Certificate in Public Administration, or Certificate in Public Budgeting, or C.I. and PAD 6700.

Course Description
A political and rational examination of the government budgetary process and document to better understand their managerial, policy, planning, and communication functions.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Every Semester

PAD6234 - Public Capital and Debt

Course Title
Public Capital and Debt

Credits Hours
3

Prerequisites
- Admission to Public Budgeting and Finance Graduate Certificate or any graduate degree program in the School of Public Administration or C.I.

Course Description
Financial economic theories and financial management techniques to solve complex financing problems in securities markets; development of innovative financing techniques.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional
PAD6235 - Fundraising as a Profession

**Course Title**
Fundraising as a Profession

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to Master of Nonprofit Management, or Master of Public Administration, or Certificate in Fundraising, or C. I. Examines principles involved in fundraising profession including current trends and best practices utilized by professional fundraisers. Topics include donor research, psychology of giving and volunteer involvement.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Spring

PAD6236 - Philanthropy and Society

**Course Title**
Philanthropy and Society

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
A historic overview of philanthropy focusing on voluntary action for public good, for moral action, and as a foundation of democracy.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Occasional
PAD6237 - Ethics and Governance in Nonprofit Management

Course Title
Ethics and Governance in Nonprofit Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Nonprofit Management, or Fundraising Certificate.

Course Description
Ethical competence in public service leadership in the nonprofit sector, ethical decision making, creation of a culture of ethics through leadership, stewardship, and governance.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PAD6238 - Revenue Policy and Administration

Course Title
Revenue Policy and Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Graduate Certificate in Public Budgeting and Finance or any School of Public Administration graduate degree program or C.I.

Course Description
Political and economic aspects of tax administration, tax policy and fundamentals of tax legislations with emphasis on state and local government.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall
PAD6254 - Economics of Land Use Planning and Development

Course Title
Economics of Land Use Planning and Development

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Links basic growth and economic theory with applied challenges resulting from planning and development. Provides understanding of economic consequences of private market decisions on land use and development.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

PAD6260 - Fundamentals of Public Sector Accounting

Course Title
Fundamentals of Public Sector Accounting

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Budgeting and Finance Graduate Certificate or any graduate degree program in the School of Public Administration or C.I.

Course Description
Emphasizes municipal entity fund accounting; development and use of financial statements, transaction evaluation, accounting rules and procedures.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional
PAD6307 - Public Policy Analysis and Management

**Course Title**
Public Policy Analysis and Management

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Master of Public Administration, or Master of Nonprofit Management, or Master of Science in Urban and Regional Planning, or Certificate in Public Administration, or C.I.

**Course Description**
Program analysis and organization structure as policy tools, examining the implementation of differential policy and the administrator as policy maker and change agent.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Occasional

PAD6316 - Planning Methods

**Course Title**
Planning Methods

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing. Encompasses two fundamental types of analyses in planning - population and economic analysis for localities and regions. Content covers data collection, analytical methods and techniques of report presentation for population and economic analysis.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Fall
PAD6327 - Public Program Evaluation Techniques

Course Title
Public Program Evaluation Techniques

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Nonprofit Management, or Master of Science in Urban and Regional Planning, or Master of Research Administration, or Certificate in Public Administration, or Certificate in Police Leadership, or C.I.

Course Description
Techniques and skills utilized in the evaluation of public programs.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PAD6335 - Strategic Planning and Management

Course Title
Strategic Planning and Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Public Administration and PAD 6700, or Master of Nonprofit Management, or Master of Science in Urban and Regional Planning, or Master of Research Administration, or Certificate in Nonprofit Management, or Certificate in Fundraising, or Certificate in Public Administration, or C.I.

Course Description
An examination and analysis of planning, goal setting, and strategic management in public sector organizations.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall
PAD6339 - Housing Development and Planning

Course Title
Housing Development and Planning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Metropolitan and regional planning course with primary focus on familiarizing students with housing planning and development in communities.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

PAD6353 - Environmental Planning and Policy

Course Title
Environmental Planning and Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing. Underlying concepts, approaches and critical issues in the field of environmental planning and management. Environmental planning processes will be examined from various political/geographical scales and within a policy content.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
PAD6355 - Growth Management Approaches and Techniques

Course Title
Growth Management Approaches and Techniques

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Regional and metropolitan planning course that focuses on how growth management works in communities.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

PAD6357 - Urban Resilience

Course Title
Urban Resilience

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Master student in the School of Public Administration.

Course Description
This course will examine a range of issues associated with understanding urban resilience from community, environment, infrastructure, security, to planning, and assessment aspects. Specific topics will include urban resilience and resilient communities, urban resilience, urban vulnerability, disaster resilience, resilience policy and practice, adaptive planning and hazard mitigation, urban resilience assessment, climate change adaptation, infrastructure interdependency and security, disaster recovery and housing recovery, and interdisciplinary research in urban resilience.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Every Semester
PAD6387 - Transportation Policy

Course Title
Transportation Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing. An examination of the process of public policy formulation and implementation in the field of transportation.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

PAD6397 - Managing Emergencies and Crises

Course Title
Managing Emergencies and Crises

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Graduate standing or C.I.

Course Description
Analyzes and integrates the basic crisis management steps: hazard mitigation, disaster preparedness, disaster response, and recovery --building analytical and practical skills necessary to perform effectively in homeland security/emergency management-related positions.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional
PAD6398 - Hazard Analysis and Disaster Planning

Course Title
Hazard Analysis and Disaster Planning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing; School of Public Administration Major.

Course Description
Examines geospatial aspects of hazards analysis and planning with reference to disaster preparedness, recovery, mitigation, and resilience.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

PAD6399 - Foundations of Emergency Management and Homeland Security

Course Title
Foundations of Emergency Management and Homeland Security

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Analyzes the policy and organizational design issues confronting managers of emergency management and homeland security programs by: examining the natural and manmade threats; by analysis of the network of actors - national, state, local, and private; and by assessing the policy, plans, and procedures at governmental and community levels.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional
PAD6417 - Human Resource Management

Course Title
Human Resource Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Public Administration, or Master of Nonprofit Management, or Master of Research Administration, or Certificate in Public Administration, or Certificate in Corrections Leadership, or C. I.

Course Description
Administrator as manager and motivator of public employees with particular emphasis on organizational behavior and contemporary public service legislation.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PAD6439 - Leadership in Public Service

Course Title
Leadership in Public Service

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 7916.

Course Description
Admission to School of Public Administration graduate degree programs. Importance of sound public leadership and development of analytical skills to recognize and resolve critical public management issues.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Fall
PAD6616 - Economic Principles for Public Policy and Management

Course Title
Economic Principles for Public Policy and Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Graduate Certificate in Public Budgeting or Master of Public Administration. Economic concepts, relationships, and methods of analysis that are relevant for public sector management decisions and policy analysis; usefulness of economic analysis in Public Sector decision making.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Every Semester

PAD6700 - Research Methods in Public Administration

Course Title
Research Methods in Public Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Public Administration program or C.I.

Course Description
Statistical methodology and use of computers as a tool for decision making in the public sector.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall
PAD6701 - Analytical Techniques for Public Administration

Course Title
Analytical Techniques for Public Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PAD 6700 or C.I.

Course Description
Applied analytical tools for administrators in the public sector. Practical use of computers in policy and decision making.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PAD6705 - Public Sector Communications

Course Title
Public Sector Communications

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Administration or Nonprofit Management master's programs.

Course Description
Recognizing stakeholders and their needs; focusing on communications specific to reputation management, branding and marketing strategies in keeping with regulatory standards.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
PAD6716 - Information Systems for Public Managers and Planners

Course Title
Information Systems for Public Managers and Planners

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing. Use of systems concept, software and computers in contemporary public sector management and planning information systems.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PAD6741 - Research Integrity for Research Administrators

Course Title
Research Integrity for Research Administrators

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Admission to Master of Research Administration program.

Course Description
This course provides an overview of research integrity from the perspective of those in the field of research administration.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Summer
PAD6742 - Introduction to Research Administration

Course Title
Introduction to Research Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Research Administration program or C.I.

Course Description
Overview of research administration including history, roles and relationships, partnership, purpose and core value of research and research organizational types.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

PAD6743 - Leadership and Organization Models in Research Administration

Course Title
Leadership and Organization Models in Research Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Research Administration program or C.I.

Course Description
General management concepts in preparation for leadership roles in Research Administration, the tools of managerial decision-making and team building, and acquaints students with theories and principles of research and development organizations.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional
PAD6744 - Financial Management in Research Administration

**Course Title**
Financial Management in Research Administration

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Master of Research Administration program or C.I.

**Course Description**
Overview of financial management in research administration to establish an understanding of the complex financial management and reporting environment.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Occasional

PAD6745 - Contracting for Sponsored Programs

**Course Title**
Contracting for Sponsored Programs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Master of Research Administration program or C.I.

**Course Description**
Overview of the contracting mechanisms that are relevant to sponsored program management, including federal regulations; policy-, business- and risk-based decisions impacting sponsored program contracting.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Occasional
PAD6746 - Intellectual Property, Technology Transfer and Commercialization

Course Title
Intelectual Property, Technology Transfer and Commercialization

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Research Administration program or C.I.

Course Description
Role of research administration in technology transfer and commercialization of new innovations, including intellectual property relating to copyright, patents and trademarks.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

PAD6747 - Audits in Research Administration

Course Title
Audits in Research Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Research Administration program or C.I.

Course Description
Overview of financial and non-financial audit process for research contracts and grants. Includes audit process, types of audits and do's and don'ts when an organization is audited.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional
PAD6748 - Governance and Regulatory Issues for Sponsored Programs

**Course Title**
Governance and Regulatory Issues for Sponsored Programs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Master of Research Administration program or C.I.

**Course Description**
Provides an overview of the governing and regulatory structure for which research organizations must comply and operate to administer and manage research projects and programs.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Fall

PAD6825 - Cross-Sectoral Governance

**Course Title**
Cross-Sectoral Governance

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate Standing or C.I.

**Course Description**
Examines the structures, dynamics and processes associated with developing and delivering public services through networks and partnerships involving public, nonprofit, voluntary and private sectors.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Occasional
PAD6826 - Urban Policy and Regional Governance

Course Title
Urban Policy and Regional Governance

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Graduate student in School of Public Administration.

Course Description
This course explores conceptual, analytical and applied aspects of regional governance to achieve more effective local economic, environmental and social policy outcomes.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PAD6829 - Network Analysis in Public Policy and Management

Course Title
Network Analysis in Public Policy and Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Public Administration graduate student. Advance understanding and appreciation of design and evaluation of public policy and management networks.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
PAD6836 - Comparative Global Public Administration

Course Title
Comparative Global Public Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or C.I.

Course Description
Public Administration at the national level, to include political system, policy structure, institutional frameworks, institutional capacity and level of technology.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

PAD6847 - Planning Healthy Communities

Course Title
Planning Healthy Communities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Addresses impact of community design on health and provision of health care to the population. Includes land use patterns, transportation, water/air quality, sanitation, mental health, provision of health care services and social capital in maintaining health.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Even Spring
PAD6848 - Policy Analysis Capstone

**Course Title**
Policy Analysis Capstone

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Students must complete majority of the MPP core before enrolling in Capstone.

**Course Description**
Provide environment in which students integrate, synthesize, and apply knowledge, skills, and perspectives acquired in MPP curriculum to real world public policy and management problem.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Spring

PAD6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

PAD6918 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Public Administration
PAD6920 - Visualization and Presentation Workshop for Urban Planners

Course Title
Visualization and Presentation Workshop for Urban Planners

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Graduate standing, PAD 5337, and PAD 6716.

Course Description
Introduction to methods for observing, interpreting, representing, and transforming the urban environment. Through various lenses, our surroundings can be understood and expressed within a professional practice framework.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Fall

PAD6934 - Special Issues in Public Administration

Course Title
Special Issues in Public Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Substantive and theoretical issues confronting the broad spectrum of contemporary public administration. May be repeated for credit only when course content is different.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional
PAD6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Public Administration

PAD6946 - Internship

Course Title
Internship

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Master of Public Administration, or Master of Nonprofit Management, or Master of Science in Urban and Regional Planning, or Certificate in Fundraising, or Certificate in Emergency Management and Homeland Security, and consent of Internship Director.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Every Semester

PAD6949 - Cooperative Education in Public Administration

Course Title
Cooperative Education in Public Administration

Credits Hours
0 - 99

College
College of Community Innovation and Education

Department
School of Public Administration
PAD7006 - Intellectual History of Public Administration

Course Title
Intellectual History of Public Administration

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to PhD in Public Administration program.

Course Description
Exposure to intellectual historical background using foundational readings in public administration theory, to include research design foundations, and critical thinking about theory and practice.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Fall

PAD7016 - Public Policy Processes and Theory

Course Title
Public Policy Processes and Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Administration PhD Program.

Course Description
Analysis of public policy aspects with an empirical focus rather than normative, although both important policy processes components. Focus on policymaking in the U.S.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Odd Fall
PAD7026 - Advanced Seminar in Public Administration

Course Title
Advanced Seminar in Public Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program or C.I.

Course Description
Discuss emerging issues in public administration research using current journal articles and exemplary research in areas such as public management.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

PAD7057 - Advanced Public Management

Course Title
Advanced Public Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program.

Course Description
Examines the literature and practice in public organization management focusing on empirical findings and theoretical discussion in critical areas of public management and administration.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Even Spring
PAD7106 - Public Organization Theory and Behavior

Course Title

Public Organization Theory and Behavior

Credits Hours

3

Lab/Studio/Field Work Hours

3

Prerequisites

- Admission to PhD in Public Administration Program.

Course Description

This doctoral seminar is designed for Ph.D. students to study the theory and behavior of public organizations. It examines classic and latest literature and discusses key topics such as motivation, team and groups, organizational structure, decision making, economics of organizations, and networks. The course should guide students to develop a focused area of study prior to their dissertations.

College

College of Community Innovation and Education

Department

School of Public Administration

Terms of Offering

Spring

Fall

PAD7308 - Advanced Public Policy Analysis

Course Title

Advanced Public Policy Analysis

Credits Hours

3

Lab/Studio/Field Work Hours

3

Prerequisites

- Admission to PhD in Public Administration program.

Course Description

This doctoral seminar exposes Ph.D. students to study the theory, practice, and methods of public policy analysis. It examines topics of rational policy choice, economics of public policy, policy evaluation theory and practice, and methods for impact evaluation. The course will also explore policy analysis in areas of students' specialties and interests and illustrate how researchers have applied the theoretical models and empirical methods to policy issues and public programs.

College

College of Community Innovation and Education

Department

School of Public Administration

Terms of Offering

Spring

Fall
PAD7317 - Program Design and Management

Course Title
Program Design and Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program or C.I.

Course Description
Analysis of community-based advanced organizational design and development theories and management techniques utilized in designing and developing public and nonprofit programs.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Even Summer

PAD7701 - Quantitative Methods for Public Administration & Policy I

Course Title
Quantitative Methods for Public Administration & Policy I

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to PhD in Public Administration; PAD 7706.

Course Description
Using probability theory, students will develop robust regression models (including time, heteroscedasticity, serial correlation, and complete regression diagnostics) with computer-based statistical software.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall
PAD7706 - Advanced Research Design for Public Administration and Policy

**Course Title**
Advanced Research Design for Public Administration and Policy

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Admission to PhD in Public Administration program.

**Course Description**
Students will use scientific inquiry to design and critically evaluate research methodologies. Topics include: causality, validity, reliability, conceptualization, operationalization, measurement, sampling theory, experimentation, and ethics.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Spring
Fall

PAD7707 - Advanced Research in Public Administration

**Course Title**
Advanced Research in Public Administration

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Public Affairs Ph.D. program or C.I.

**Course Description**
Integration of knowledge and research skills gained through the doctoral program with integrative application to the most current issues in the field of public administration.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Odd Spring
PAD7709 - Advanced Qualitative Methods for Public Administration and Policy

Course Title
Advanced Qualitative Methods for Public Administration and Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission in Public Administration PhD program; PAD 7706.

Course Description
Students identify, gather, analyze, and report various kinds of qualitative data using observation, interviews, case studies, visual methodologies, narrative analysis, grounded theory, and action research.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Odd Fall

PAD7756 - Quantitative Methods for Public Administration and Policy II

Course Title
Quantitative Methods for Public Administration and Policy II

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to PhD in Public Administration; PAD 7706; PAD 7701.

Course Description
Students will test multivariate analytic models using continuous and categorical dependent variables, and master techniques for correcting models that violate statistical assumptions.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall
PAD7827 - Network Governance

Course Title
Network Governance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program or C.I.

Course Description
Analysis of theory, skills and processes of designing, developing, evaluating and managing networks in a public policy and management setting with emphasis on building capacity across organization and sectoral boundaries.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Odd Spring

PAD7919 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Public Administration

PAD7939 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Public Administration
PAF6720 - Graduate Seminar in Global Health and Public Affairs Research

Course Title
Graduate Seminar in Global Health and Public Affairs Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Global Health Graduate Certificate or C.I. Interdisciplinary seminar on global health and public affairs. Impacts of science and technology, health, education, welfare and environmental policy on globalization will be examined from a comparative perspective.

College
College of Community Innovation and Education

Department
Public Affairs PhD Department

Terms of Offering
Fall

PAF7000 - Foundations of Public Affairs: People, Places, Policies and Paradigms

Course Title
Foundations of Public Affairs: People, Places, Policies and Paradigms

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. Program or C.I.

Course Description
Provides an overview of public affairs and is taught from an interdisciplinary perspective focused on the necessary components to effectively address community-based problems.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Fall
PAF7055 - Seminar in State and Local Government Policy Research

Course Title
Seminar in State and Local Government Policy Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program or C.I.

Course Description
State and local governments explored from a comparative perspective. Focusing upon similarities and differences between states with implications for state and local policy.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Even Spring

PAF7230 - Strategic Change and Management for Public Affairs

Course Title
Strategic Change and Management for Public Affairs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program or C.I.

Course Description
Course deals with change in: organizations, governance relationships and communities. The course uses a "tools" approach.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
PAF7317 - Social Inquiry and Public Policy

**Course Title**
Social Inquiry and Public Policy

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Public Affairs Ph.D. or C.I.

**Course Description**
Course examines the philosophical foundations of social inquiry and the importance of theory in public policy and evaluation research.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Fall

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PAF7325 - Policy and Program Evaluation for Public Affairs

**Course Title**
Policy and Program Evaluation for Public Affairs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Public Affairs Ph.D. PAF 7802 and PAF 7804, or C.I.

**Course Description**
Course is designed to use empirical information to assess the effectiveness of policies and programs in public and nonprofit settings.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Fall
PAF7510 - Seminar in Policy Evaluation and Performance Measurement

Course Title
Seminar in Policy Evaluation and Performance Measurement

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. Program or C.I.

Course Description
Applies quantitative methods to policy evaluation and performance measurement, particularly related to national and global policy changes for human development and growth.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Odd Fall

PAF7757 - Seminar in Global Governance and Policy Research

Course Title
Seminar in Global Governance and Policy Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program or C.I.

Course Description
Comparative analysis in Public Affairs from global perspective examining and comparing U.S. Public Affairs and International Global areas.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional
PAF7802 - Advanced Research Methodology for Public Affairs

Course Title
Advanced Research Methodology for Public Affairs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program or C.I.

Course Description
Course focuses on the nature and process of scientific inquiries including specific methods for conducting social science research in a community setting.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Fall

PAF7804 - Advanced Statistics for Public Affairs I: Multivariate Analysis

Course Title
Advanced Statistics for Public Affairs I: Multivariate Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. Program or C.I.

Course Description
An advanced statistical course that efficiently and effectively perform multivariate modeling and analyze multivariate statistical data to address critical issues in public affairs.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
PAF7805 - Advanced Statistics for Public Affairs II: Survey of Statistical Methods

**Course Title**
Advanced Statistics for Public Affairs II: Survey of Statistical Methods

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Public Affairs Ph.D. program, PAF 7802 and PAF 7804 or C.I.

**Course Description**
Introduction to an array of statistical modeling techniques for different types of data and research designs. Coverage of theory and application of each technique.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Fall

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PAF7820 - Qualitative Methods for Public Affairs

**Course Title**
Qualitative Methods for Public Affairs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Public Affairs Ph.D. program and PAF 7802 and PAF 7804, or C.I.

**Course Description**
Course is an overview of qualitative research methods and their application in interdisciplinary and mixed methods community-based public affairs research.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Fall
PAF7856 - Applications of Structural Equation Modeling in Public Affairs

Course Title
Applications of Structural Equation Modeling in Public Affairs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program or C.I.

Course Description
Course introduces advanced methods that include causal thinking, predictor tree analysis, propensity source matching and analysis, latent growth curve modeling and multilevel modeling.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring

PAF7858 - Advanced Seminar in Governance and Policy Research

Course Title
Advanced Seminar in Governance and Policy Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PAF 7000, PAF 7300, PAF 7806 or C.I.

Course Description
Integrates theoretical and methodological applications to public policy analysis, particularly related to environmental, science and technological, health and welfare impacts.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Odd Spring
PAF7868 - Public Affairs Mixed Methods Research

**Course Title**
Public Affairs Mixed Methods Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Public Affairs Ph.D. and PAF 7805 Advanced Stats for Public Affairs II or C.I.

**Course Description**
Develops advanced expertise in research methods skills which can include mixed methods, statistics skills, geographic information analysis, research syntheses, meta-analyses, and/or economic analysis such as cost effectiveness analysis.

**College**
College of Community Innovation and Education

**Department**
Public Affairs PhD Department

**Terms of Offering**
Spring

**Current Fee Per Student**
$44.00

PAF7925 - Symposium on Public Affairs Issues

**Course Title**
Symposium on Public Affairs Issues

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Public Affairs program or C.I.

**Course Description**
Exploration of issues and trends impacting the four subject areas in U.S. Public Affairs along with the interdisciplinary characteristics of the respective cognate areas.

**College**
College of Community Innovation and Education

**Department**
School of Public Administration

**Terms of Offering**
Occasional
PAF7947 - Public Affairs Community-Based Research

Course Title
Public Affairs Community-Based Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. and PAF 7000, PAF 7802, PAF 7804, PAF 7317, PAF 7820, PAF 7325, PAF 7805 or C.I.

Course Description
This course provides students an experiential engagement working with interdisciplinary teams and community partners to conduct and report on a community-engaged research study.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Spring
Fall

PAF7981 - Dissertation Prospectus Seminar in Public Affairs

Course Title
Dissertation Prospectus Seminar in Public Affairs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program and C.I.

Course Description
Train and guide students as they begin the dissertation prospectus process. Includes planning the study, conducting the literature review, developing the research questions and choosing theories and methods.

College
College of Community Innovation and Education

Department
Public Affairs PhD Department

PAZ - Parks and Zoos
PAZ5235 - Zoo and Aquarium Biology Management

Course Title
Zoo and Aquarium Biology Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I. Conservation, propagation and exhibition of wild animals in captivity.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Summer

PCB - Process Cell Biology

PCB5025 - Molecular and Cellular Pharmacology

Course Title
Molecular and Cellular Pharmacology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, PCB 3522.

Course Description
The cellular and molecular events that lead to disease states and the molecular basis of agents that modulate these processes will be covered.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Spring
PCB5235 - Molecular Immunology
Course Title
Molecular Immunology
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- MCB 3020C or equivalent.

Course Description
Fundamental functions of the human immune system, focusing on cellular and molecular aspects of the innate and adaptive immune response.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Fall

PCB5236 - Cancer Biology
Course Title
Cancer Biology
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- PCB 4524 and graduate standing.

Course Description
Current knowledge and research on molecular mechanism of tumor development, tumor progression, metastasis and therapy of cancer.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Occasional
PCB5238 - Immunobiology

**Course Title**
Immunobiology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PCB 3233, PCB 4280.

**Course Description**
Advanced topics in immune system dysregulation with special emphasis on innate immunity.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Spring

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PCB5265 - Stem Cell Biology

**Course Title**
Stem Cell Biology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing.

**Course Description**
Introduction to embryonic and adult stem cells, procedures to isolate them, principles and applications of stem cells in animal and human diseases.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Occasional
PCB5275 - Signal Transduction Mechanics

**Course Title**
Signal Transduction Mechanics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PCB 3522 and PCB 4524.

**Course Description**
A course emphasizing various signal transduction cascades used in mammalian cells to control growth and differentiation. Discussion of original research papers will occur.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Occasional

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PCB5326C - Ecosystems of Florida

**Course Title**
Ecosystems of Florida

**Credits Hours**
5

**Lab/Studio/Field Work Hours**
2

**Course Description**
Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM In Conservation Biology, or C.I. Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Occasional

**Current Fee Per Student**
$15.00
PCB5362C - Wetland Ecology and Biogeochemistry

**Course Title**
Wetland Ecology and Biogeochemistry

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Graduate standing in the Department of Biology or C.I.

**Course Description**
Examination of wetland ecosystems, laws and policy, current research, global biogeochemical cycles, and relevant field and laboratory techniques.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Even Spring

PCB5416 - Sensory Ecology

**Course Title**
Sensory Ecology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- C.I.

**Course Description**
How and why animals acquire, process and use information from their environment, and how sensory systems influence evolutionary processes.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Odd Spring
Even Spring
PCB5435C - Marine Ecology of Florida

**Course Title**
Marine Ecology of Florida

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
6

**Prerequisites**
- Admission to the M.S. in Biology, Ph.D. in Conservation Biology, PSM in Conservation Biology, or Certificate in Conservation Biology, or C.I.

**Course Description**
Survey of experimental methods used in the study of marine communities in central and southern Florida, combining field manipulation and readings from primary literature.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Odd Spring

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PCB5447 - Disease Ecology and Ecoimmunology

**Course Title**
Disease Ecology and Ecoimmunology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
A grade of B (3.0) or better in Genetics (PCB 3063 or equivalent) and Ecology (PCB 3044 or equivalent), or C.I., or graduate standing. Examination of how hosts, parasites and environment interact to shape organisms, populations and communities.

**College**
College of Sciences

**Department**
Department of Biology
PCB5469 - GIS for Biologists and Ecologists

Course Title
GIS for Biologists and Ecologists

Credits Hours
3

Lab/Studio/Field Work Hours
6

Prerequisites
- Graduate standing in the Dept. of Biology, or C.I.

Course Description
Investigates how GIS is currently being used to better understand and address environment problems and to help manage and conserve natural resources.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Fall

PCB5527 - Genetic Engineering and Biotechnology

Course Title
Genetic Engineering and Biotechnology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PCB 3522 and PCB 4524 or C.I.

Course Description
Principles of Genetic Engineering/Biotechnology in Bacteria, Yeast, Viral, Mammalian, Non-mammalian systems, Plants, including human gene therapy, novel pharmaceuticals, recombinant proteins will be discussed in depth.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Fall
PCB5596 - Biomedical Informatics: Sequence Analysis

**Course Title**
Biomedical Informatics: Sequence Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PCB 3522 or equivalent or C.I.

**Course Description**
Introduction of useful bioinformatics tools and resources on sequence analysis.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Fall

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PCB5688 - Wildlife Genomics

**Course Title**
Wildlife Genomics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate student in Biology MS or Conservation Biology PhD

**Course Description**
Understanding of how Genomic methods are applied to problems in wildlife biology, with an emphasis on vertebrate animal species in terrestrial and marine ecosystems.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Odd Fall
PCB5709C - Laboratory Virtual Simulations in Physiology

Course Title
Laboratory Virtual Simulations in Physiology

Credits Hours
3

Lab/Studio/Field Work Hours
2

Corequisites
- PCB 5834C

Course Description
Advanced Human Physiology. Conduct experiments in physiology that enhance the ability to design, collect, analyze data and report results in a scientific manner.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Occasional

PCB5815 - Molecular Aspects of Obesity, Diabetes and Metabolism

Course Title
Molecular Aspects of Obesity, Diabetes and Metabolism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PCB 3522 or BCH 4053 or BSC 6432.

Course Description
Biochemical, molecular and physiological aspects of obesity, diabetes and metabolic diseases and how scientific findings can be translated towards prevention and treatment.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Odd Spring
PCB5834C - Advanced Human Physiology

**Course Title**
Advanced Human Physiology

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Designed to provide graduate students advanced knowledge of physiological processes at the cellular, molecular and system levels.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Fall

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PCB5837 - Cellular and Molecular Neuroscience

**Course Title**
Cellular and Molecular Neuroscience

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing. An advanced and thorough course providing understanding of the cellular components and molecular signaling pathways involved in the nervous system function.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Every Semester
PCB5838 - Cellular and Molecular Basis of Brain Functions

Course Title
Cellular and Molecular Basis of Brain Functions

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Designed to provide graduate students the concepts required to understand the physiological basis of brain functions at the molecular, cellular and system levels.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Fall

PCB5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Biology
PCB5935 - Population Genetics

**Course Title**
Population Genetics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.
Population genetics and the study of the various forces that result in evolutionary changes through time.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Even Fall

PCB5937 - ST: Advanced Inferences in Conservation Biology

**Course Title**
ST: Advanced Inferences in Conservation Biology

**Credits Hours**
1 - 99

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- PCB 6466 or Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

**Course Description**
An Introduction to fundamental concepts of processing high-dimensional data in an applied conservation biology context. The course includes lectures, discussions, and computer lab modules.

**College**
College of Sciences

**Department**
Department of Biology
PCB6041 - Ecological Modeling

Course Title
Ecological Modeling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PCB 6466, or C.I.

Course Description
Mathematical models used in ecology and offers tools for process-based model development in ecology.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Spring

PCB6042 - Conservation Biology Theory

Course Title
Conservation Biology Theory

Credits Hours
4

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing in Biology or C.I. Review and analysis of the literature of conservation biology.

College
College of Sciences

Department
Department of Biology
PCB6046 - Advanced Ecology

Course Title
Advanced Ecology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in Biology, admission to Certificate in Conservation Biology, or C.I.

Course Description
Population and community ecology with emphasis on growth, regulation, species interactions, succession, and community classification.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Occasional

PCB6047 - Advances in Plant Ecological Research

Course Title
Advances in Plant Ecological Research

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Course Description
Current methodological and conceptual developments in plant ecological research. Examination of newly published and on-going research through presentations and group discussions. Graded S/U. May be used in the degree program a maximum of 2 times.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Occasional
PCB6053C - Restoration Ecology

Course Title
Restoration Ecology

Credits Hours
4

Lab/Studio/Field Work Hours
4

Course Description
Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I. Survey of the general ecological principles that guide restoration ecology: the process of assisting the recovery of degraded, damaged or destroyed ecosystems.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Spring

Current Fee Per Student
$70.00

PCB6095 - Professional Development in Biology I

Course Title
Professional Development in Biology I

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Course Description
Methods in experimental design, research, and the ethics of animal research.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Occasional
PCB6096 - Professional Development in Biology II

**Course Title**
Professional Development in Biology II

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the M.S. in Biology, Ph.D. in Conservation Biology, or Certificate in Conservation Biology, or C.I.

**Course Description**
Preparation and presentation of research grants, scientific presentations, and scientific papers.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Occasional

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PCB6124 - Structure Bioinformatics

**Course Title**
Structure Bioinformatics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PCB 5596 or equivalent.

**Course Description**
Focus on tools and resources in RNA and protein structure analyses.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Occasional
PCB6328C - Landscape Ecology

Course Title
Landscape Ecology

Credits Hours
4

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to the M.S. in Biology, Ph.D. in Conservation Biology, PSM in Conservation Biology, or Certificate in Conservation Biology, or C.I.

Course Description
Influence of spatial heterogeneity on ecological processes. Emphasizes quantitative methods (e.g., GIS, remote sensing and modeling) to characterize landscape patterns and dynamics.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Occasional

Current Fee Per Student
$15.00

PCB6409 - Global Change Biology

Course Title
Global Change Biology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Examination of global climate change science applied to biological systems. Topics include physical basis, physiological and evolutionary responses, range shifts, biogeochemical cycles, disturbance, uncertainty, and effective communication.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Odd Spring
**PCB6466 - Methods in Experimental Ecology**

**Course Title**
Methods in Experimental Ecology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

**Course Description**
An introduction to methods of population ecology. Experimental design, statistics, experimental variables and treatments and measurements of organisms and the environment.

**College**
College of Sciences

**Department**
Department of Biology

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**PCB6468 - Methods in Experimental Ecology II**

**Course Title**
Methods in Experimental Ecology II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
PCB 6466 Methods in Experimental Ecology. Strengthen student's ability to collect, organize and interpret ecological data. Confronts concepts in experimental design, execution and analysis as a tool to improve ecological research.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Even Spring
PCB6480C - Quantitative Conservation Biology

Course Title
Quantitative Conservation Biology

Credits Hours
4

Lab/Studio/Field Work Hours
2

Prerequisites

• C.I.

Course Description
Data analysis & modeling to evaluate population dynamics, basic training in programming & statistical procedures of population analysis of different modeling approaches, uses & limitations.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Occasional

PCB6528 - Plant Molecular Biology

Course Title
Plant Molecular Biology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

• PCB 4524 or C.I.

Course Description
Structure and function of plant genomes, genes, gene products and experimental approaches for genetic engineering for production of edible vaccines, antibodies or other pharmaceuticals.

College
College of Medicine

Department
Department of Biology

Terms of Offering
Occasional
PCB6556 - Conservation Genetics

**Course Title**
Conservation Genetics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I. Applications of genetic models to the understanding and conservation of animal and plant populations.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Odd Spring

PCB6595 - Regulation of Gene Expression

**Course Title**
Regulation of Gene Expression

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Advanced course in molecular biology of BSC 6407C.

**Course Description**
Concepts of molecular biology focusing on major areas in transcriptional and translational processes.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Occasional
PCB6655 - Advanced Invertebrate Genetics

Course Title
Advanced Invertebrate Genetics

Credits Hours
1

Lab/Studio/Field Work Hours
2

Prerequisites
- PCB 3063 or equivalent, graduate standing.

Course Description
Literature based discussion of recent developments in classical and molecular genetics of invertebrates. May be used in the degree program a maximum of 3 times.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Spring
Fall

PCB6675C - Evolutionary Biology

Course Title
Evolutionary Biology

Credits Hours
4

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

Course Description
Review of modern concepts and theories in evolutionary biology with emphasis on readings in the primary literature.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Even Fall
PCB6677 - Molecular Evolution and Phylogenetics

Course Title

Molecular Evolution and Phylogenetics

Credits Hours

3

Lab/Studio/Field Work Hours

0

Prerequisites

- Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

Course Description

Advanced understanding of evolution at the molecular level based on phylogenetic analysis of changes in DNA, RNA and protein.

College

College of Sciences

Department

Department of Biology

Terms of Offering

Odd Fall

PCB6909 - Research Report

Course Title

Research Report

Credits Hours

1 - 99

College

College of Sciences

Department

Department of Biology

PCB6918 - Directed Research

Course Title

Directed Research

Credits Hours

1 - 99

College

College of Sciences

Department

Department of Biology
PCB6930 - Current Topics in Ecology

Course Title
Current Topics in Ecology

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Research on current ecological topics will be added. The instructor will assign readings on a weekly basis. Students will lead discussion. Graded S/U. May be repeated for credit.

College
College of Sciences

Department
Department of Biology

Terms of Offering
Occasional

PCB6935 - Advanced Topics in Cardiovascular Science

Course Title
Advanced Topics in Cardiovascular Science

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Cutting-edge research in cardiovascular science is presented with emphasis on molecular mechanisms of cardiac development, vascular inflammation, oxidative stress, and neural regulation of the cardiovascular system.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Occasional
PCB6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Biology

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PCB6939 - Topics in Genomics

**Course Title**
Topics in Genomics

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Course Description**
PCB 3063. Review current literature in Genomics, one of the fastest growing fields in Biology.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Occasional

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PCB7919 - Doctoral Research

**Course Title**
Doctoral Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Biology

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**PEM - Physical Education Acts (Gen)-Perform Centrd Land**
PEM5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

PEM5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
School of Teacher Education

PEO - Physical Education Acts (Profnl)-Object Cent Land

PEO5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Health Professions and Sciences
Department
School of Kinesiology and Physical Therapy– Kinesiology

PEO5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Health Professions and Sciences
Department
School of Kinesiology and Physical Therapy– Kinesiology

2021-2022 Graduate Catalog
PET - Physical Education Theory

PET5216 - Motivational Aspects of Coaching

Course Title
Motivational Aspects of Coaching

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Assist students to understand and conceptually integrate mental and physical performance, mental rehearsal, motivation, effort, persistence, adherence and compliance, measurement and evaluation, and other related topics of interest.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Even Summer

PET5355 - Exercise Physiology I

Course Title
Exercise Physiology I

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to Kinesiology MS or Exercise Physiology PhD or C.I.

Course Description
Provides an in-depth understanding of systems physiology with an emphasis on responses to various exercise intensities and modalities, and homeostatic control.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Fall
PET5495 - Critical Issues: Ethics in Coaching and Sport

Course Title
Critical Issues: Ethics in Coaching and Sport

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Specializes in coaching and sport leadership in self-evaluating, examining, and developing philosophy, values, and moral reasoning skills.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Even Summer

PET5766 - Advanced Coaching Theory

Course Title
Advanced Coaching Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
Advanced study of theories and methods of coaching for optimum sports performance.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Occasional
PET5917 - Directed Research  
**Course Title**  
Directed Research  
**Credits Hours**  
1 - 99  
**College**  
College of Health Professions and Sciences  
**Department**  
School of Kinesiology and Physical Therapy- Kinesiology

PET5937 - Special Topics  
**Course Title**  
Special Topics  
**Credits Hours**  
3  
**College**  
College of Health Professions and Sciences  
**Department**  
School of Kinesiology and Physical Therapy- Kinesiology

PET6096 - Youth Physical and Athletic Development  
**Course Title**  
Youth Physical and Athletic Development  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Course Description**  
Graduate standing or C.I. This class will introduce concepts associated with sport and physical activity development in youth athletes. A multi-factorial, systematic approach to the development process, including discussion of key factors, such as physical literacy, talent identification, specialization, etc. will be presented. Students will also become familiar with the theory and practice of strength and conditioning for children and young athletes.  
**College**  
College of Health Professions and Sciences  
**Department**  
School of Kinesiology and Physical Therapy- Kinesiology  
**Terms of Offering**  
Occasional
PET6217 - Peak Performance in Sports

Course Title
Peak Performance in Sports

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Admission to Kinesiology MS or C.I.

Course Description
An in-depth study of mental and physical performance, including mental rehearsal, motivation, effort, and persistence.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Occasional

PET6335 - Functional Anatomy and Kinesiology

Course Title
Functional Anatomy and Kinesiology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Admission to the Kinesiology MS or Education PhD - Exercise Physiology track or C.I.

Course Description
Overview of functional anatomy and fundamental movements from a biomechanical perspective.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Occasional
PET6347 - Advanced Coaching Methods
Course Title
Advanced Coaching Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
Stimulate philosophic thinking and foster a spirit of confidence in the coaching profession by showing coaches various methods they can use to teach their athletes.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Odd Spring

PET6357C - Environmental Perturbation and Human Performance
Course Title
Environmental Perturbation and Human Performance

Credits Hours
3

Lab/Studio/Field Work Hours
2

Course Description
A study of physiological adaptation resulting from prescribed physical activity programs.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Occasional
PET6363 - Dietary and Nutritional Supplementation for Athletic Performance

Course Title
Dietary and Nutritional Supplementation for Athletic Performance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
An in-depth study of the efficacy of dietary and nutritional supplements used to enhance athletic performance and improve activities of daily living.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Even Spring

PET6366 - Exercise, Nutrition and Weight Control

Course Title
Exercise, Nutrition and Weight Control

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Explores the interrelationship between nutrition, energy metabolism and exercise performance.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Occasional
PET6367 - Bioenergetics of Human Movement and Performance

Course Title
Bioenergetics of Human Movement and Performance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Kinesiology MS or C.I.

Course Description
Analysis of substrate metabolism at rest, during acute exercise and following exercise training.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Occasional

PET6372 - Physical Activity and Nutritional Epidemiology

Course Title
Physical Activity and Nutritional Epidemiology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Kinesiology MS or Education PhD-Exercise Physiology track or C.I.

Course Description
Overview of the epidemiology of physical activity, sedentary behavior and nutrition and the interaction of physical activity and nutrition with disease from a global and cultural perspective.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Occasional
PET6376 - Sport Nutrition

**Course Title**
Sport Nutrition

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the program or C.I.

**Course Description**
Study of the proper nutrition for training, the role of macro and micronutrients on the physiological processes of the body, and the importance of nutrient timing.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Even Fall

PET6381 - Physiology of Neuromuscular Mechanisms

**Course Title**
Physiology of Neuromuscular Mechanisms

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Human body morphology and function critical in producing motion, strength, power, and endurance.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Occasional
PET6388 - Cardiovascular Physiology

**Course Title**
Cardiovascular Physiology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Anatomy and Physiology or equivalent.

**Course Description**
Operation of the cardiovascular system in vivo.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Occasional

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PET6389 - Exercise Physiology II

**Course Title**
Exercise Physiology II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission to Kinesiology MS or Exercise Physiology PhD or C.I.

**Course Description**
An in-depth study of adaptations of various physiological systems to exercise training and the effects of environmental factors on physiological systems and performance.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Odd Spring
Even Spring
PET6391 - Training and Conditioning Techniques for Coaches

Course Title
Training and Conditioning Techniques for Coaches

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- PET 5355.

Course Description
Knowledge and application of training and conditioning as it relates to the improvement of physical athletic performance and fitness.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Occasional

PET6395 - Program Design in Strength and Conditioning

Course Title
Program Design in Strength and Conditioning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Admission to the program or C.I.

Course Description
An in-depth study of various types of training, including insights on developing athletes' strength, power, anaerobic conditioning, endurance, agility, and speed.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Odd Spring
PET6515 - Assessment and Evaluation in Kinesiology

**Course Title**
Assessment and Evaluation in Kinesiology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Kinesiology MS or C.I.

**Course Description**
Techniques of assessment and evaluation of human performance and their applications to kinesiology.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Spring

**Current Fee Per Student**
$47.00

PET6521 - Exercise Physiology Instrumentation

**Course Title**
Exercise Physiology Instrumentation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Instrumentation management and assessment protocols related to select exercise physiological parameters: anthropometric, bioenergetic, blood lactate, joint flexibility, and muscle rheology, strength and fatigue curve measurements.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology
PET6690 - Exercise Prescription for Special Populations

**Course Title**
Exercise Prescription for Special Populations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the program or C.I.

**Course Description**
Designed to provide the student the basic understanding of exercise testing and prescription as it pertains to special populations.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Odd Fall

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PET6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology
PET6910 - Problem Analysis - Review of Literature

Course Title
Problem Analysis - Review of Literature

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Kinesiology MS and C.I.

Course Description
Comprehensive review of literature related to a selected topic in kinesiology; identification, analysis, and evaluation of developments, issues, and research problems. May be repeated for credit.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Occasional

PET6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

PET6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology
PET6946 - Practicum, Clinical Practice

Course Title
Practicum, Clinical Practice

Credits Hours
3 - 6

Lab/Studio/Field Work Hours
16-Aug

Prerequisites
- Admission to Kinesiology MS and C.I.

Course Description
Field experience in a kinesiology-related organization, association or business. May be repeated for credit.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy – Kinesiology

Terms of Offering
Every Semester

PET7365 - Cardiovascular Dynamics During Exercise

Course Title
Cardiovascular Dynamics During Exercise

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
An examination of the cardiovascular regulatory mechanism responsible for the adjustment to acute and chronic exercise.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy – Kinesiology

Terms of Offering
Occasional
PET7368 - Regulation of Metabolism During Exercise

**Course Title**
Regulation of Metabolism During Exercise

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- C.I.

**Course Description**
An examination of the metabolic regulatory mechanism responsible for the adjustment to acute and chronic exercise.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Occasional

PET7387 - Exercise Endocrinology

**Course Title**
Exercise Endocrinology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the program or C.I.

**Course Description**
An in-depth study of the neuroendocrine system and the hormonal responses to exercise.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Occasional
PGY - Photography

PGY5108C - Photography Theory and Practice
Course Title
Photography Theory and Practice

Credits Hours
3

Lab/Studio/Field Work Hours
4

Prerequisites
- Graduate Standing or C.I.

Course Description
Focuses on the study and practice of theory and photography as contemporary art making through readings, discussions, lectures, demos, web-based resources, in-class exercises and projects.

College
College of Arts and Humanities

Department
School of Visual Arts and Design

Terms of Offering
Occasional

PGY5917 - Directed Research
Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
School of Visual Arts and Design
PGY5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
School of Visual Arts and Design

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PHC - Public Health Concentration

PHC5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

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PHC5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics
PHC6000 - Epidemiology

Course Title
Epidemiology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Health Services Administration graduate program or C.I.

Course Description
A study of the distribution and determination of diseases and injuries in human populations.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Summer

PHC6003 - Epidemiology of Chronic Diseases

Course Title
Epidemiology of Chronic Diseases

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S. Clinical and Lifestyle Sciences track or C.I.

Course Description
Selected topics in chronic disease with critical analysis of the current epidemiologic literature; opportunity to study methodological issues, contemporary findings and future direction of research.

College
College of Health Professions and Sciences

Department
Department of Health Sciences

Terms of Offering
Occasional
PHC6010 - Quantitative Methods in Epidemiology

Course Title
Quantitative Methods in Epidemiology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MS Health Sciences graduate program and PHC 6000.

Course Description
Principles of managerial epidemiology, quantitative methods, application of prostatistics, use of personal computers to handle data and solve problems.

College
College of Health Professions and Sciences

Department
Department of Health Sciences

Terms of Offering
Occasional

PHC6020 - Introduction to Clinical Trials

Course Title
Introduction to Clinical Trials

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Sciences M.S.

Course Description
An overview of clinical trials theory and design characteristics provides the background necessary to conduct single center and multi-center studies.

College
College of Health Professions and Sciences

Department
Department of Health Sciences

Terms of Offering
Spring
PHC6146 - Health Planning and Policy

Course Title
Health Planning and Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Health Services Administration graduate program or C.I.

Course Description
Review of the determinants of the revolution of the health care system in the United States; analysis of public health, preventive medicine, and therapeutic medicine in terms of quality, access, and cost; methodologies and issues in comprehensive health planning; and trends in health policy development.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Fall

PHC6160 - Health Care Finance

Course Title
Health Care Finance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- HSA 5177 or passing score on finance assessment exam.

Course Description
The identification of resources available to health care institutions, allocation of resources, and control of resource expenditures.

College
College of Community Innovation and Education

Department
School of Global Health Management and Informatics

Terms of Offering
Fall
PHC6164 - Health Care Finance II
Course Title
Health Care Finance II
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- PHC 6160.
Course Description
Course facilitates the development of strategic financial plans and its application to current health care management issues.

College
College of Community Innovation and Education
Department
School of Global Health Management and Informatics
Terms of Offering
Spring

PHC6183 - Health Care Emergency Management
Course Title
Health Care Emergency Management
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing.
Course Description
Broad overview of topics related specifically to how the health care industry addresses issues associated with disasters and emergencies.

College
College of Community Innovation and Education
Department
School of Global Health Management and Informatics
Terms of Offering
Spring
PHC6411 - Health and Society

**Course Title**
Health and Society

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Understanding health and illness as defined by patients, providers, and other persons in the social system.

**College**
College of Health Professions and Sciences

**Department**
Department of Health Sciences

**Terms of Offering**
Occasional

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PHC6420 - Case Studies in Health Law

**Course Title**
Case Studies in Health Law

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Health Services Administration graduate program or C.I.

**Course Description**
Health law including patient care, liability, malpractice, workmen's compensation, and legal responsibilities of health personnel.

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

**Terms of Offering**
Spring
**PHC6706 - Introduction to Clinical Research**

**Course Title**
Introduction to Clinical Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Health Sciences M.S. Clinical and Lifestyle Sciences track or C.I.

**Course Description**
This course offers an introductory overview to clinical research. Course content focuses on key concepts beginning with an overview of the conception of research question.

**College**
College of Health Professions and Sciences

**Department**
Department of Health Sciences

**Terms of Offering**
Spring

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**PHC6909 - Research Report**

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics

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**PHC6918 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
School of Global Health Management and Informatics
PHC6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
School of Global Health Management and Informatics

PHI - Philosophy

PHI5225 - Philosophy of Language
Course Title
Philosophy of Language
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to graduate certificate in Cognitive Sciences or C.I.
Course Description
Philosophy of the nature of language and relationships between language, reality, cognition, and culture.
College
College of Arts and Humanities
Department
Department of Philosophy
Terms of Offering
Occasional
PHI5324 - Foundations Cognitive Sciences

Course Title
Foundations Cognitive Sciences

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Cognitive Sciences MA program or C.I.

Course Description
Critical evaluation of conceptual, historical, and theoretical foundations of the cognitive sciences.

College
College of Arts and Humanities

Department
Department of Philosophy

Terms of Offering
Fall

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PHI5325 - Topics in Philosophy of Mind

Course Title
Topics in Philosophy of Mind

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into graduate certificate program in Cognitive Sciences or C.I.

Course Description
Contemporary issues in philosophy of mind, including explanatory gap, and the problem of other minds.

College
College of Arts and Humanities

Department
Department of Philosophy

Terms of Offering
Occasional
PHI5327 - Topics in the Cognitive Sciences

Course Title
Topics in the Cognitive Sciences

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to graduate certificate program in Cognitive Sciences or C.I.

Course Description
Theoretical issues and empirical studies in the cognitive sciences, including contemporary discussions of mind, brain, artificial intelligence, pathologies, behavioral capacities.

College
College of Arts and Humanities

Department
Department of Philosophy

Terms of Offering
Fall

PHI5328 - Philosophies of Embodiment

Course Title
Philosophies of Embodiment

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to graduate certificate in Cognitive Sciences or C.I.

Course Description
Relations among mind, body, and nature. Knowledge of self, world and others as articulated by Western philosophy, with special emphasis on embodied cognition.

College
College of Arts and Humanities

Department
Department of Philosophy

Terms of Offering
Occasional
PHI5329 - Philosophy of Neuroscience

**Course Title**
Philosophy of Neuroscience

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to graduate certificate in Cognitive Sciences or C.I.

**Course Description**
Neurophilosophy, including discussion of promises and limitations of neuroscience for understanding of the mind.

**College**
College of Arts and Humanities

**Department**
Department of Philosophy

**Terms of Offering**
Occasional

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PHI5340 - Research Methods in the Cognitive Sciences

**Course Title**
Research Methods in the Cognitive Sciences

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to graduate certificate program in Cognitive Sciences or C.I.

**Course Description**
Interdisciplinary research methods in the cognitive sciences.

**College**
College of Arts and Humanities

**Department**
Department of Philosophy

**Terms of Offering**
Spring

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2021-2022 Graduate Catalog
PHI5627 - Theoretical and Applied Ethics

Course Title
Theoretical and Applied Ethics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, or graduate standing or C.I.

Course Description
A seminar in theoretical and applied ethics with emphasis on application in professional fields. Variable content.

College
College of Arts and Humanities

Department
Department of Philosophy

Terms of Offering
Fall

PHI5634 - Medical Ethics

Course Title
Medical Ethics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Ethics for practitioners of clinical medicine, health care delivery and medical research.

College
College of Arts and Humanities

Department
Department of Philosophy

Terms of Offering
Fall
PHI5665 - Knowledge, Responsibility, and Society

Course Title
Knowledge, Responsibility, and Society

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, PHI 4300, PHI 4341, PHI 4400, PHI 4633, PHI 4931 or Graduate standing.

Course Description
A seminar exploring the relationship between ethics and epistemology with application to social concerns. Variable content.

College
College of Arts and Humanities

Department
Department of Philosophy

Terms of Offering
Occasional

PHI5687 - Ethics in Science and Technology

Course Title
Ethics in Science and Technology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
The relationship between ethics and the pursuit and application of human knowledge, emphasizing the responsibility of scientists to society.

College
College of Arts and Humanities

Department
Department of Philosophy

Terms of Offering
Occasional
PHI5697 - Neuroethics

Course Title
Neuroethics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Advanced ethical issues associated with the mind sciences, especially neuroscience.

College
College of Arts and Humanities

Department
Department of Philosophy

Terms of Offering
Occasional

PHI5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Philosophy

PHI5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Philosophy
PHI 6679 - Digital Ethics

Course Title
Digital Ethics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Critical examination of the nature and scope of the digital and its ethical implications for social structures and institutions, and human and nonhuman nature.

College
College of Arts and Humanities

Department
Department of Philosophy

Terms of Offering
Occasional

PHM - Philosophy of Man and Society

PHM 5035 - Environmental Philosophy

Course Title
Environmental Philosophy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PHI 3640, PHI 2630, graduate status or senior standing, or C.I.

Course Description
This course will provide an in-depth examination of the major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology.

College
College of Arts and Humanities

Department
Department of Philosophy

Terms of Offering
Occasional
PHM5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Philosophy

PHM5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Philosophy

PHT - Physical Therapy

PHT5003 - Foundations of Physical Therapy
Course Title
Foundations of Physical Therapy
Credits Hours
2
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to the Physical Therapy program.
Course Description
Introduction to the profession of physical therapy.
College
College of Health Professions and Sciences
Department
School of Kinesiology and Physical Therapy - Kinesiology
Terms of Offering
Summer
PHT5125 - Clinical Kinesiology

**Course Title**
Clinical Kinesiology

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Corequisites**
- PHT 5125L.

**Course Description**
Investigates the mechanical aspects of human movement, joint mechanics of the upper and lower extremity, the vertebral column and tissue mechanics of relevant human tissues.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy- Kinesiology

**Terms of Offering**
Summer

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PHT5125L - Clinical Kinesiology Lab

**Course Title**
Clinical Kinesiology Lab

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
2

**Corequisites**
- PHT 5125.

**Course Description**
Graduate level study of human musculoskeletal movement with an emphasis on joint mechanics and clinical applications.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy- Kinesiology

**Terms of Offering**
Summer

**Current Fee Per Student**
$35.00
PHT5218C - Therapeutic Modalities in Rehabilitation

**Course Title**
Therapeutic Modalities in Rehabilitation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission to the Doctor of Physical Therapy Program.

**Course Description**
Theories of physical agents, heat, light, cold, water, sound, and massage; problem solving rationale and selection of interventions for inflammation, pain, edema, and weakness.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Spring

**Current Fee Per Student**
$30.00

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PHT5240 - Physical Assessment

**Course Title**
Physical Assessment

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Physical Assessment Lab. Extensive theory and practice in the examination of the patient.

**Course Description**
Incorporate a systems approach, utilizing screening, and patient problem solving.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Fall
PHT5240L - Physical Assessment Lab

Course Title
Physical Assessment Lab

Credits Hours
2

Lab/Studio/Field Work Hours
4

Corequisites
- Physical Assessment.

Course Description
Lab course emphasizing the examinations required to perform an evaluation of physical therapy patient.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Fall

Current Fee Per Student
$45.00

PHT5241 - Therapeutic Exercises I

Course Title
Therapeutic Exercises I

Credits Hours
2

Lab/Studio/Field Work Hours
0

Corequisites
- Therapeutic Exercises I Lab.

Course Description
Theory of developing, implementing, and evaluating a therapeutic exercise program for patients with musculoskeletal dysfunction.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Spring
PHT5241L - Therapeutic Exercise Lab I
Course Title
Therapeutic Exercise Lab I

Credits Hours
2

Lab/Studio/Field Work Hours
4

Prerequisites
- Therapeutic Exercise I.

Course Description
Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Spring

Current Fee Per Student
$20.00

PHT5260 - Patient Care Skills
Course Title
Patient Care Skills

Credits Hours
2

Lab/Studio/Field Work Hours
0

Corequisites
- Patient Care Skills Lab.

Course Description
Affective, cognitive, and psychomotor skills, regarding patient care. Basic skills of patient care, transfers, mobility skills, draping, gait training.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Fall
PHT5260L - Patient Care Skills Lab

Course Title
Patient Care Skills Lab

Credits Hours
2

Lab/Studio/Field Work Hours
4

Corequisites
PHT 5260

Course Description
Skills of patient care, transfers, mobility skills.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Fall

Current Fee Per Student
$30.00

PHT5718 - Neurological Physical Therapy

Course Title
Neurological Physical Therapy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Corequisites

Course Description
Analysis of selected neuromotor theories and their clinical applications. Examinations and interventions for the evaluation and treatment of neurological patients presented.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Summer
PHT5718L - Neurological Physical Therapy Lab

Course Title
Neurological Physical Therapy Lab

Credits Hours
1

Lab/Studio/Field Work Hours
2

Corequisites
- Neurological Physical Therapy.

Course Description
Lab Course emphasizing the clinical application of selected neuromotor theories.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Summer

Current Fee Per Student
$30.00

PHT5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

PHT5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

2021-2022 Graduate Catalog
PHT5937L - Special Topics

Course Title

Special Topics

Credits Hours

3

College

College of Health Professions and Sciences

Department

School of Kinesiology and Physical Therapy- Kinesiology

PHT6070C - Radiology/Imaging for Physical Therapy

Course Title

Radiology/Imaging for Physical Therapy

Credits Hours

3

Lab/Studio/Field Work Hours

1

Prerequisites

- Admission to DPT program.

Course Description

A diagnostic imaging course focusing on clinical implications in rehabilitation. The focus will be on patients with neurological and orthopedic disorders.

College

College of Health Professions and Sciences

Department

School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering

Fall
PHT6115C - Gross Anatomy/Neuroscience I

Course Title
Gross Anatomy/Neuroscience I

Credits Hours
6

Lab/Studio/Field Work Hours
6

Prerequisites
- Admission to DPT program.

Course Description
Study of human anatomy via lecture and cadaver dissection emphasizing upper and lower extremity, musculoskeletal, peripheral vascular and peripheral nervous systems, thoracic and abdominopelvic cavities.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Summer

Current Fee Per Student
$70.00

PHT6118C - Gross Anatomy/Neuroscience II

Course Title
Gross Anatomy/Neuroscience II

Credits Hours
6

Lab/Studio/Field Work Hours
6

Prerequisites
- Gross Anatomy/Neuroscience I.

Course Description
Comprehensive study of anatomy and physiology of the nervous system to develop DPT students' improved treatment strategies for patients with neurological problems.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Fall

Current Fee Per Student
$70.00
PHT6119L - Seminar in Anatomical Sciences Techniques

**Course Title**
Seminar in Anatomical Sciences Techniques

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
6

**Prerequisites**
- Admission to the Anatomical Sciences Graduate Certificate.

**Course Description**
Development of skills as an anatomist with an emphasis on integrating a diverse repertoire of scientific technique.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy- Kinesiology

**Terms of Offering**
Occasional

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PHT6153 - Physiologic Assessment in Physical Therapy Practice

**Course Title**
Physiologic Assessment in Physical Therapy Practice

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- PHT 6156C.

**Course Description**
Course provides clinical applications and laboratory demonstrations of human musculoskeletal, neurological, cardiovascular, hemopoietic, respiratory, gastrointestinal, and renal systems.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy- Kinesiology

**Terms of Offering**
Fall
PHT6156 - Applied Human Physiology for Health Sciences

Course Title
Applied Human Physiology for Health Sciences

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Doctor of Physical Therapy program.

Course Description
Course provides in-depth study of human cardiovascular, hemopoietic, respiratory, gastrointestinal, renal and reproductive systems with emphasis on mechanisms responsible for maintaining homeostasis.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy – Kinesiology

Terms of Offering
Summer

Current Fee Per Student
$25.00

PHT6156C - Applied Human Physiology for Health Sciences

Course Title
Applied Human Physiology for Health Sciences

Credits Hours
3

Prerequisites
- Admission to the Doctor of Physical Therapy program.

Course Description
Course provides in-depth study of human cardiovascular, hemopoietic, respiratory, gastrointestinal, renal and reproductive systems with emphasis on mechanisms responsible for maintaining homeostasis.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy

Terms of Offering
Summer

Current Fee Per Student
$25.00
PHT6219C - Pain Mechanisms and Treatment in Rehabilitation

Course Title
Pain Mechanisms and Treatment in Rehabilitation

Credits Hours
2

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to Doctor of Physical Therapy program.

Course Description
This course will cover current concepts in pain science, including theoretical models for the basis of pain and the multidimensional nature of pain.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Summer

Current Fee Per Student
$45.00

PHT6242 - Orthopedic Physical Therapy

Course Title
Orthopedic Physical Therapy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- NGR 6210, NGR 6230L.

Corequisites
- PHT 6242L

Course Description
Examination and interventions for the evaluation and treatment of specific orthopedic cases and injuries presented.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Fall
PHT6242L - Orthopedic Physical Therapy Lab

**Course Title**
Orthopedic Physical Therapy Lab

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
2

**Corequisites**
- Orthopedic Physical Therapy.

**Course Description**
Lab course emphasizing the examinations and interventions for the evaluation and treatment of specific orthopedic cases and injuries.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Fall

**Current Fee Per Student**
$40.00

PHT6245 - Therapeutic Exercise II

**Course Title**
Therapeutic Exercise II

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHT 5218 and PHT 5218L

**Corequisites**
- PHT 6245L

**Course Description**
Exploration of the various therapeutic exercise modalities, and their application to the rehabilitation course of treatment.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Fall
PHT6245L - Therapeutic Exercise II Lab

Course Title
Therapeutic Exercise II Lab

Credits Hours
1

Lab/Studio/Field Work Hours
2

Prerequisites
- Therapeutic Exercise I and Lab

Corequisites
- Therapeutic Exercise II.

Course Description
Lab course emphasizing the use of the various therapeutic exercise modalities.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Fall

Current Fee Per Student
$15.00

PHT6306 - Pathology in Rehabilitation

Course Title
Pathology in Rehabilitation

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Doctor of Physical Therapy program.

Course Description
Organized seminars on the pathophysiology and clinical manifestations and treatments of various medical conditions as they relate to medical management in rehabilitation.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Spring
PHT6322C - Pediatric Physical Therapy

Course Title
Pediatric Physical Therapy

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to DPT program.

Course Description
Study of the normal neurodevelopmental sequences for pediatric clinical assessment and physical therapy intervention provided to clients with abnormal diseases and dysfunction.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Fall

PHT6356 - Pharmacology in Rehabilitation

Course Title
Pharmacology in Rehabilitation

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Doctor of Physical Therapy program.

Course Description
Mechanisms of drug action, dose-response relations, pharmacokinetics, drug delivery systems, drug metabolism, toxicity of pharmacological agents, and drug interaction as it relates to rehabilitation.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Spring
PHT6374C - Geriatric Physical Therapy

Course Title
Geriatric Physical Therapy

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites

 Admission to the Doctor of Physical Therapy program.

Course Description
This course provides an introduction to physiological aging and physical therapy management of the older adult. Includes examination, evaluation, and development of intervention programs focusing on exercise, prevention, education, and modification programs.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Spring

PHT6381C - Cardiopulmonary Physical Therapy

Course Title
Cardiopulmonary Physical Therapy

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites

 Admission to DPT program.

Course Description
Examinations and interventions for the management of chronic and acute cardiopulmonary problems. Teaching patient strategies for preventing/managing dysfunction.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Fall

Current Fee Per Student
$15.00
PHT6510 - Administration of Anatomical Sciences Laboratory
Course Title
Administration of Anatomical Sciences Laboratory
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate or professional level gross human cadaver dissection course.
Course Description
Developing administrative skills for educators in the anatomical sciences with an emphasis on laboratory safety, health concerns, and cadaver procurement and storage to prepare educators for graduate and professional programs.
College
College of Health Professions and Sciences
Department
School of Kinesiology and Physical Therapy– Kinesiology
Terms of Offering
Summer

PHT6521 - Management of Physical Therapy Services
Course Title
Management of Physical Therapy Services
Credits Hours
2
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to DPT program.
Course Description
Planning, organizing, delivering and evaluating physical therapy services within a health care system, including quality management, third party payers, DRG's and legislative impact.
College
College of Health Professions and Sciences
Department
School of Kinesiology and Physical Therapy– Kinesiology
Terms of Offering
Spring
**PHT6606 - Research Methods in Physical Therapy**

**Course Title**
Research Methods in Physical Therapy

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to DPT program.

**Course Description**
Methods of research applied to clinical environment of physical therapy. Coverage of the language, logic, design and analysis of clinical research.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Spring

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**PHT6618 - Research Applications in Physical Therapy**

**Course Title**
Research Applications in Physical Therapy

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Research methods in Physical Therapy - PHT 6606.

**Course Description**
To evaluate research studies, focus on evidence-based practice. SPSS and principles of epidemiology will be introduced.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**
Fall
PHT6716C - Advanced Orthopedic Physical Therapy

**Course Title**
Advanced Orthopedic Physical Therapy

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Orthopedic Physical Therapy

**Corequisites**
- Advanced Orthopedic Physical Therapy Lab.

**Course Description**
Specific rehabilitative protocols regarding particular orthopedic injuries and illnesses are presented. Focus on the previous course work in therapeutic modalities, anatomy, physiology, and therapeutic exercises incorporated.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Spring

**Current Fee Per Student**
$25.00

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PHT6719 - Advanced Neurological Physical Therapy

**Course Title**
Advanced Neurological Physical Therapy

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHT 5718

**Corequisites**
- PHT 6719L.

**Course Description**
Examinations and interventions for the evaluation and treatment of the neurological patient. Emphasis on patients with spinal cord injury and neurological diseases.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Fall
PHT6719L - Advanced Neurological Physical Therapy Lab
Course Title
Advanced Neurological Physical Therapy Lab

Credits Hours
1

Lab/Studio/Field Work Hours
2

Prerequisites
- PHT 5718L

Corequisites
- PHT 6719.

Course Description
Course Emphasizing examinations and interventions for the evaluation and treatment of patients with neurological disease. Emphasis on patients with spinal cord injury and neurological disease.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Fall

Current Fee Per Student
$25.00

PHT6720 - Integumentary Physical Therapy
Course Title
Integumentary Physical Therapy

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Physical Therapy program.

Course Description
Instruction in contemporary issues and specialized care of the integumentary system provided by physical therapists.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy - Kinesiology

Terms of Offering
Spring

Current Fee Per Student
$45.00
PHT6805C - Clinical Education I

Course Title
Clinical Education I

Credits Hours
4

Lab/Studio/Field Work Hours
20

Prerequisites
- Admission to DPT program.

Course Description
Collaborative course where students meet to analyze, synthesize and discuss current professional, ethical and moral decision-making in physical therapy setting, culminating in a six-week clinical internship.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Fall

Current Fee Per Student
$12.50

PHT6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

PHT6918 - Directed Research

Course Title
Directed Research

Credits Hours
0 - 99

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology
PHT6938C - ST: Neuroplasticity of Human Movements

Course Title
ST: Neuroplasticity of Human Movements

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- Complete at least 2 courses of the following types:
  - Anatomy at the undergraduate or graduate level.

Course Description
Anatomical foundation of brain function as it pertains normal body movements and the neuroplasticity that occurs during the process of rehabilitation after injury

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy

Terms of Offering
Even Spring
Odd Spring

PHT6938ST1 - ST: Seminar in Anatomical Sciences Techniques

Course Title
ST: Seminar in Anatomical Sciences Techniques

Credits Hours
2

Lab/Studio/Field Work Hours
0

Course Description
Development of skills as an anatomist with an emphasis on integrating a diverse repertoire of scientific technique.

PHT6938ST2 - ST: Administration of Anatomical Sciences Laboratory

Course Title
ST: Administration of Anatomical Sciences Laboratory

Credits Hours
1

Lab/Studio/Field Work Hours
0

Course Description
The course focuses on developing administrative skills as an educator in the anatomical sciences emphasizing laboratory safety, health concerns, and cadaver procurement and storage.
**PHT6958 - Study Abroad**

**Course Title**

Study Abroad

**Credits Hours**

0 - 99

**College**

College of Health Professions and Sciences

**Department**

School of Kinesiology and Physical Therapy– Kinesiology

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**PHT7021 - Professional Practice in Physical Therapy**

**Course Title**

Professional Practice in Physical Therapy

**Credits Hours**

2

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Foundations of Physical Therapy.

**Course Description**

Professional development, ethics and strategies to address cultural diversity issues, communication skills and different styles of learning to prepare for clinical practice as a doctoring healthcare professional in physical therapy.

**College**

College of Health Professions and Sciences

**Department**

School of Kinesiology and Physical Therapy– Kinesiology

**Terms of Offering**

Spring
PHT7134C - Physical Therapy Integration

Course Title
Physical Therapy Integration

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- PHT 7722C

Course Description
This course integrates foundational knowledge of physiology and pathology to develop physical therapy skills for examinations and interventions of medically complex patients and special populations.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Spring

Current Fee Per Student
$15.00

PHT7329C - Advanced Pediatric Physical Therapy

Course Title
Advanced Pediatric Physical Therapy

Credits Hours
1

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to DPT program.

Course Description
Course provides an advanced look into abnormal motor development, neurological and orthopedic diseases/conditions, interventions, examinations and other aspects of the patient/client management model for the pediatric population.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Fall
PHT7521 - Management of Physical Therapy Services II

Course Title
Management of Physical Therapy Services II

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- PHT 6521.

Course Description
Application of management, finance and economic health-related principles for strategy development, implementation and assessment for the physical therapy manager.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Fall

PHT7702C - Advanced Orthotics and Prosthetics

Course Title
Advanced Orthotics and Prosthetics

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- PHT 6245, PHT 6245L.

Course Description
Advanced considerations for the amputee patient with regards to rehabilitation. Students will review the primary focal issues surrounding rehabilitation after an amputation and how prosthetics may assist with functional return.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Spring
PHT7721C - Integrations in Orthopedic Physical Therapy

Course Title
Integrations in Orthopedic Physical Therapy

Credits Hours
1

Lab/Studio/Field Work Hours
1

Prerequisites
- PHT 6716C.

Course Description
Designed to correlate all previous coursework in curriculum in study presentations. Advanced evaluation procedures included. Advanced knowledge of differential diagnosis in the orthopedic patient covered.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy – Kinesiology

Terms of Offering
Fall

PHT7722C - Integrative Clinical Practice

Course Title
Integrative Clinical Practice

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to DPT program.

Course Description
This course emphasizes the synthesis of clinical and differential diagnostic skills required of a physical therapist in order to enter clinical practice.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy – Kinesiology

Terms of Offering
Summer

Current Fee Per Student
$15.00
PHT7730C - Primary Care for the Physical Therapist

**Course Title**
Primary Care for the Physical Therapist

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission to DPT program.

**Course Description**
Students learn higher level diagnostic screening skills to make clinical decisions. The course takes a system approach including system review, clinical signs and symptoms and case studies.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Fall

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PHT7742C - Acute Care Physical Therapy

**Course Title**
Acute Care Physical Therapy

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- PHT 6306

**Course Description**
Considerations and evidence-based evaluation, treatment, and management of patients in various settings within acute care.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Fall

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2021-2022 Graduate Catalog
PHT7764C - Advanced Neurological Treatment

Course Title
Advanced Neurological Treatment

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- PHT 6719, PHT 6719L, PHT 7772C.

Course Description
This course can provide third year students with the opportunity to further explore evidence-based neurological intervention.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Spring

PHT7772C - Advanced Neurological Physical Therapy II

Course Title
Advanced Neurological Physical Therapy II

Credits Hours
1

Lab/Studio/Field Work Hours
1

Prerequisites
- PHT 6719 and PHT 6719L.

Course Description
Problem-based learning provides a team based interdisciplinary problem-solving environment where students devise solutions and approaches to problems encountered by physical therapists treating patients with neurological problems.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Fall
PHT7778C - Advanced Manual Therapy

Course Title
Advanced Manual Therapy

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- PHT 6716C, PHT 7721C.

Course Description
Concepts associated with advanced manipulative interventions in the context of physical therapy care. Indications and contra-indications will be reviewed and applied in a clinical context.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Spring

PHT7779C - Sports Physical Therapy

Course Title
Sports Physical Therapy

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to the Doctor of Physical Therapy program.

Course Description
Considerations and evidence-based evaluation, treatment, and management of patients with sport-related injuries.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Spring
PHT7780C - Advanced Geriatric Physical Therapy

**Course Title**
Advanced Geriatric Physical Therapy

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- PHT 6374C.

**Course Description**
Advanced topics in geriatric rehabilitation.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Fall

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PHT7822C - Clinical Education II

**Course Title**
Clinical Education II

**Credits Hours**
6

**Lab/Studio/Field Work Hours**
40

**Prerequisites**
- Admission to the Doctor of Physical Therapy program.

**Course Description**
Collaborative course for third year students to meet, analyze, synthesize and discuss current ethical, legal, and moral decision-making in physical therapy clinical setting culminating in internship.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Summer

**Current Fee Per Student**
$12.50
PHT7823C - Clinical Education III

Course Title
Clinical Education III

Credits Hours
4

Lab/Studio/Field Work Hours
20

Prerequisites
• PHT 7822C.

Course Description
Clinical education course to synthesize ethical, legal, and professional contemporary practice with evidence-based intervention, culminating in a full-time, 8-week clinical internship in physical therapy practice setting.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Fall

Current Fee Per Student
$12.50

PHT7829C - Clinical Education IV

Course Title
Clinical Education IV

Credits Hours
4

Lab/Studio/Field Work Hours
20

Prerequisites
• PHT 7823C.

Course Description
Clinical education course to synthesize ethical, legal, and professional contemporary practice with evidence-based intervention, culminating in a full-time, terminal 8-week clinical internship in physical therapy practice setting prior to graduation.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Spring

Current Fee Per Student
$12.50
PHT7900 - Capstone Project in Physical Therapy

Course Title
Capstone Project in Physical Therapy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to DPT program.

Course Description
Directed research culminating in a substantive paper related to the art or science of Physical Therapy.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Spring

Current Fee Per Student
$13.09

PHT7999 - Physical Therapy Residency

Course Title
Physical Therapy Residency

Credits Hours
2

Lab/Studio/Field Work Hours
1

Course Description
Beyond the earned Doctor of Physical Therapy degree and C.I. Instruction for post-professional physical therapy residency program fostering advanced clinical practice as outlined by the American Board of Physical Therapy Specialties.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy- Kinesiology

Terms of Offering
Every Semester

PHY - Physics
PHY5346 - Electrodynamics I

Course Title
Electrodynamics I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PHY 4324, and graduate status or senior standing or C.I.

Course Description

College
College of Sciences

Department
Department of Physics

Terms of Offering
Fall

PHY5524 - Statistical Physics

Course Title
Statistical Physics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PHY 3513, STA 3032, and graduate status or senior standing or C.I.

Course Description

College
College of Sciences

Department
Department of Physics

Terms of Offering
Spring
PHY5606 - Quantum Mechanics I

Course Title
Quantum Mechanics I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PHY 4605, and graduate status or senior standing or C.I.

Course Description
Basic postulates of quantum mechanics, operators, eigenvalues, parity, potential wells, harmonic oscillator, time dependent and time independent Schrödinger equation, matrix formulation, and time independent perturbation theory.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Fall

PHY5715 - Physical Basis of Life

Course Title
Physical Basis of Life

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Molecular and physical principles of origin of life, physical and chemical interpretation of life processes.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Fall
PHY5817L - Building Physics Apparatus

Course Title
Building Physics Apparatus

Credits Hours
1

Lab/Studio/Field Work Hours
3

Prerequisites
- Graduate standing or senior standing and C.I.

Course Description
Hands-on shop course. Focus will be machine shop practice with possible extension to printed circuit boards and glass work.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Occasional

Current Fee Per Student
$45.00

PHY5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Physics
PHY5933 - Selected topics in biophysics of macromolecules

Course Title
Selected topics in biophysics of macromolecules

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PHY 3101, CHM 2046, and graduate status or senior standing or C.I.

Course Description
Physical concepts and techniques used in the spectroscopic study of dynamic structure and function of biological macromolecules such as proteins; Connections with other complex systems. May be repeated for credit.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Occasional

PHY5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Physics
**PHY6246 - Classical Mechanics**

**Course Title**
Classical Mechanics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- C.I.

**Course Description**

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Occasional

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**PHY6347 - Electrodynamics II**

**Course Title**
Electrodynamics II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHY 5346, or C.I.

**Course Description**

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Spring
PHY6600C - Theory and Computations of Molecular Wavefunctions

**Course Title**
Theory and Computations of Molecular Wavefunctions

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Undergraduate Quantum Mechanics or Physical Chemistry or C.I.

**Course Description**

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Even Fall

PHY6624 - Quantum Mechanics II

**Course Title**
Quantum Mechanics II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHY 5606 or C.I.

**Course Description**
Time dependent perturbation theory, exchange symmetry, Dirac Equation, second quantization, and scattering theory.

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Spring
PHY6667 - Quantum Field Theory I
Course Title
Quantum Field Theory I
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- PHY 6347 and PHY 6624 or C.I.
Course Description
Second quantization and fields, relativistic equations, path integral quantization, gauge fields.
College
College of Sciences
Department
Department of Physics

PHY6673 - Advanced Quantum Mechanics
Course Title
Advanced Quantum Mechanics
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- PHY 6624.
Course Description
Fields, radiation, Klein-Gordon equation, Dirac equation, relativistic quantum scattering, photon propagator.
College
College of Sciences
Department
Department of Physics

PHY6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Physics
PHY6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Physics

PHY6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Physics

PHY6949 - Cooperative Education in Physics

Course Title
Cooperative Education in Physics

Credits Hours
0 - 99

College
College of Sciences

Department
Department of Physics
PHY7669 - Quantum Field Theory II

**Course Title**
Quantum Field Theory II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHY 6667 or C.I.

**Course Description**
Regularization, renormalization, spontaneous symmetry breaking, unification, topological objects, supersymmetry.

**College**
College of Sciences

**Department**
Department of Physics

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**PHZ - Physics Continued**

**PHZ5156 - Computational Physics**

**Course Title**
Computational Physics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHZ 3151 or C.I.

**Course Description**
Computational methods applied to the solution of problems in many branches of physics. May be repeated for credit.

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Fall
PHZ5304 - Nuclear and Particle Physics

Course Title
Nuclear and Particle Physics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PHY 4604 or equivalent, and graduate status or senior standing or C.I.

Course Description
Particles and nuclei, symmetries and conservation laws, interactions, models.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Occasional

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PHZ5405 - Condensed Matter Physics

Course Title
Condensed Matter Physics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PHY 4604, PHY 3101, and graduate status or senior standing or C.I.

Course Description
Crystal lattice cell structure, phonons, free electron model, band theory of solids, Fermi surface, solid state applications, and polymers.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Occasional
PHZ5432 - Introduction to Soft Condensed Matter Physics

**Course Title**
Introduction to Soft Condensed Matter Physics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHY 3513 or C.I.

**Course Description**
Introduction to the physics of polymers, colloids, surfactants using basic tools of statistical mechanics.

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Occasional

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PHZ5505 - Plasma Physics

**Course Title**
Plasma Physics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHY 4324, and graduate status or senior standing or C.I.

**Course Description**
Introduction to theory and experimental basis of both weakly and highly ionized plasmas. Instabilities, plasma waves, nonlinear effects, controlled thermonuclear fusion.

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Occasional
PHZ5625 - General Relativity

Course Title
General Relativity

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Introduction to Einstein's theory of gravitation.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Odd Spring

PHZ5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Physics

PHZ5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Physics
PHZ6234 - Atomic Physics

**Course Title**
Atomic Physics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHY 6624 or OSE 6347.

**Course Description**

**College**
College of Sciences

**Department**
Department of Physics

PHZ6420 - First Principles Computational Methods in Condensed Matter Physics

**Course Title**
First Principles Computational Methods in Condensed Matter Physics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHY 5606 - Quantum Mechanics I.

**Course Description**
Introduction to density functional theory and first principles computational methods used in modern condensed matter physics with hand-on sessions using computers.

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Occasional
PHZ6426 - Condensed Matter Physics I

**Course Title**
Condensed Matter Physics I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHY 5606, and either PHY 6624 or OSE 6347.

**Course Description**
Quantum theory of crystalline solids: crystals, electronic band structure, metals, insulators, semiconductors, electron interactions in solids, lattice dynamics.

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Occasional

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PHZ6428 - Condensed Matter Physics II

**Course Title**
Condensed Matter Physics II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PHZ 6426.

**Course Description**
Many-body theory: Green's functions, Feynman diagrams, screening in the electron gas, linear response theory, magnetism, conductivity, electron-phonon interactions, superconductivity, superfluids.

**College**
College of Sciences

**Department**
Department of Physics

**Terms of Offering**
Occasional
PHZ6439 - Interfacial Physics

Course Title
Interfacial Physics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing and PHY 5606, or C.I. A conceptual understanding of fundamental electronic and structural characteristics relevant to surfaces and the experimental methodologies used to investigate them.

College
College of Sciences

Department
Department of Physics

Terms of Offering
Odd Fall

PHZ6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Physics

PHZ6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Physics
PHZ6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Physics

PLA - Paralegal/Legal Assistant/Legal Administration

PLA5587 - Current Issues in Cyberlaw
Course Title
Current Issues in Cyberlaw
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing or C.I.
Course Description
Advanced examination and discussion of free speech, copyright, trademark, patent and privacy issues in the online environment through interactive class discussions, online discussions, postings, case study reviews, and legal research projects.
College
College of Community Innovation and Education
Department
Department of Legal Studies
Terms of Offering
Occasional

PLA5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
Department of Legal Studies
PLA6245 - Advanced Applied Negotiation and Conflict Resolution

Course Title
Advanced Applied Negotiation and Conflict Resolution

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing. Students should have already completed either PLA 6247 Conflict Resolution Theory or PLA 6515 Understanding Human Behavior and Conflict prior to enrolling in this course.

Course Description
Course provides students ability to understand the negotiation process and become stronger negotiators. Students delve into real-world conflict situations with an eye toward resolution.

College
College of Community Innovation and Education

Department
Department of Legal Studies

Terms of Offering
Spring

PLA6246 - Advanced Mediation and Conflict Resolution Practicum

Course Title
Advanced Mediation and Conflict Resolution Practicum

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- Graduate Standing. Students should have already completed all other requirements of their program or be completing their degree in the same semester they are participating in the practicum.

Course Description
Real-world or simulated real-world experience to enhance mediation and conflict resolution skills by engaging in community mediation program, externship, or graduate academic competition.

College
College of Community Innovation and Education

Department
Department of Legal Studies

Terms of Offering
Occasional
PLA6247 - Conflict Resolution Theory

Course Title
Conflict Resolution Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• Graduate Standing.

Course Description
This course is an exploration of various theories on conflict resolution and practice.

College
College of Community Innovation and Education

Department
Department of Legal Studies

Terms of Offering
Fall

PLA6486 - Administrative Law

Course Title
Administrative Law

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• Graduate standing or C.I.

Course Description
The study of administrative law and procedure on the federal, state and local levels.

College
College of Community Innovation and Education

Department
Department of Legal Studies

Terms of Offering
Occasional
PLA6487 - Legal and Ethical Compliance

**Course Title**
Legal and Ethical Compliance

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Master of Research Administration program or C.I.

**Course Description**
Critical compliance issues and the importance of responsible conduct of research including export control, conflict of interest, protection of animal/human subjects and research misconduct.

**College**
College of Community Innovation and Education

**Department**
Department of Legal Studies

**Terms of Offering**
Occasional

PLA6488 - Legal and Regulatory Framework

**Course Title**
Legal and Regulatory Framework

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Master of Research Administration program or C.I.

**Course Description**
Outline the various requirements governing research (OMB Circulars, Federal Acquisition Regulations and other federal state and local regulations).

**College**
College of Community Innovation and Education

**Department**
Department of Legal Studies

**Terms of Offering**
Occasional
PLA6515 - Understanding Human Behavior and Conflict

Course Title
Understanding Human Behavior and Conflict

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing and PLA 6247.

Course Description
This course is an exploration of theories underpinning human behavior in conflict and the tools for navigating these behaviors in a variety of settings.

College
College of Community Innovation and Education

Department
Department of Legal Studies

Terms of Offering
Fall

PLA6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Legal Studies

PLA6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Legal Studies
PLA6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
Department of Legal Studies

POS - Political Science

POS5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
School of Politics, Security, and International Affairs

POS5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
School of Politics, Security, and International Affairs
POS6045 - Seminar in American National Politics

Course Title
Seminar in American National Politics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to a graduate degree-seeking program or C.I.

Course Description
Examines major aspects of the American system, including mass behavior, public opinion, and political institutions.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Fall

POS6079 - The Politics of Race, Ethnicity, Gender, and Class in the United States

Course Title
The Politics of Race, Ethnicity, Gender, and Class in the United States

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to graduate program or C.I.

Course Description
Examines the political consequences of race, ethnicity, gender, and class in the US.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Spring
POS6174 - Seminar in Southern Politics

**Course Title**
Seminar in Southern Politics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Will provide an overview of the political and social changes that have occurred in the American South in the post-World War II period.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Occasional

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POS6207 - Political Behavior

**Course Title**
Political Behavior

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status.

**Course Description**
A review of theory and findings in regard to mass political behavior, including participation, voter choice, public opinion, collective action, and communication.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Occasional
POS6403 - Teaching American Political Institutions

Course Title
Teaching American Political Institutions

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Post bac or graduate status.

Course Description
Seminar will equip students with essential knowledge of American politics and explore technologies for transferal of this knowledge into the secondary and college level classroom.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

POS6415 - The American Presidency

Course Title
The American Presidency

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Presidency research with attention to historical, personal, institutional, and political development.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
POS6427 - Congress and the Legislative Process

Course Title
Congress and the Legislative Process

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Graduate standing or C.I.

Course Description
Examination of Congress as a dynamic institution with emphasis on general legislative procedures, legislator recruitment, institutional rules, legislative norms, and the committee system.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Even Fall

POS6639 - Seminar in Public Law and Judicial Politics

Course Title
Seminar in Public Law and Judicial Politics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Graduate or post bac status.

Course Description
This course is intended to acquaint students broadly with the scholarly literature in the subfield of Public law. It surveys the meaning of the field and its development, using books and articles to illustrate the major research and teaching concentrations in the subfield.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
POS6686 - National Security Law
Course Title
National Security Law
Credits Hours
3
Lab/Studio/Field Work Hours
0
Course Description
Graduate standing or C.I. Domestic and international law affecting national security, with emphasis on branches' competing legal claims of authority and law affecting modern security challenges.
College
College of Sciences
Department
School of Politics, Security, and International Affairs
Terms of Offering
Occasional

POS6729 - Political Network Analysis
Course Title
Political Network Analysis
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate status or consent of instructor.
Course Description
Introduces concepts, analytic metrics and methods, and empirical applications in political network analysis.
College
College of Sciences
Department
School of Politics, Security, and International Affairs
Terms of Offering
Occasional
POS6736 - Conduct of Political Inquiry

Course Title
Conduct of Political Inquiry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to graduate program or C.I.

Course Description
Research design and quantitative and qualitative analysis in political science.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Fall

POS6743 - Geographic Tools for Political Science Research

Course Title
Geographic Tools for Political Science Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Provides an introduction to the theoretical assumptions, analytical possibilities and application of geographic tools of analysis for political science research.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Odd Spring
POS6746 - Quantitative Methods in Political Research

**Course Title**
Quantitative Methods in Political Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to a graduate degree-seeking program or C.I.

**Course Description**
Methods of model building and research design, including conceptualization and measurement of political variables; techniques of data collection and quantitative analysis and computer usage.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Occasional

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POS6747 - Advanced Topics in Quantitative Political Analysis

**Course Title**
Advanced Topics in Quantitative Political Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the graduate program.

**Course Description**
Successful completion of POS 6746, or equivalent, or C.I. Advanced topics in quantitative political analysis, including OLS variants, regression problems, time series, limited dependent variables and SPSS.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Occasional
POS6757 - Survey Design for Political Science Research

Course Title
Survey Design for Political Science Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Survey methods and survey design, including survey experiment techniques, used in political science.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

POS6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
School of Politics, Security, and International Affairs

POS6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
School of Politics, Security, and International Affairs
POS6938 - Special Topics/Political Analysis

Course Title
Special Topics/Political Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
This course title covers all political analysis special topics courses which are not listed in the catalog with a course number. May be repeated for credit only when course content is different.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

POS6949 - Cooperative Education in Political Science

Course Title
Cooperative Education in Political Science

Credits Hours
0 - 99

College
College of Sciences

Department
School of Politics, Security, and International Affairs
POS7267 - Professional Development: The Practice of Security Studies

**Course Title**
Professional Development: The Practice of Security Studies

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Security Studies Ph.D. program or C.I.

**Course Description**
Addresses ethics in security studies and prepares students for careers in the security sector, including topics such as ethics in decision making.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Even Spring

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POS7707 - Advanced Qualitative Methods in Political Research

**Course Title**
Advanced Qualitative Methods in Political Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Security Studies Ph.D. or C.I.

**Course Description**
Advanced qualitative methods employed in political science research, including case studies, the logic of comparison, and archival and interview-based research.

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs

**Terms of Offering**
Odd Spring
POS7745 - Advanced Quantitative Methods in Political Research

Course Title
Advanced Quantitative Methods in Political Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Security Studies Ph.D. or C.I.

Course Description
Survey of advanced quantitative methods used in political science research, including problems in regression analysis and nonlinear models.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Even Spring

POS7930 - Professional Development: Academic Careers in Security Studies

Course Title
Professional Development: Academic Careers in Security Studies

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Security Studies Ph.D. program or C.I.

Course Description
Prepares students for teaching, submission of articles to peer-reviewed journals, grant writing, ethics in the discipline, and other questions related to an academic career.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Odd Spring

POT - Political Theory

2021-2022 Graduate Catalog
POT5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
School of Politics, Security, and International Affairs

POT5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
School of Politics, Security, and International Affairs

POT6007 - Seminar in Political Theory
Course Title
Seminar in Political Theory
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to a graduate degree-seeking program or C.I.
Course Description
An examination of analytic and normative theories of politics and society, using selected topics as a substantive focus.
College
College of Sciences
Department
School of Politics, Security, and International Affairs
Terms of Offering
Occasional
POT6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Sciences
Department
School of Politics, Security, and International Affairs

POT6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
School of Politics, Security, and International Affairs

POT6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
School of Politics, Security, and International Affairs

PPE - Psychology of Personality

PPE5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology
PPE5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Psychology

PPE6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology

PPE6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology

PPE6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Psychology

PSB - Psychobiology
PSB5005 - Physiological Psychology

Course Title
Physiological Psychology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- PSB 3002 and graduate status or senior standing or C.I.

Course Description
An advanced survey of the physiological basis of behavior, emphasizing the relationship between the nervous system and behavior.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional

PSB5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Psychology

PSB5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Psychology
PSB6328 - Psychophysiology

Course Title
Psychophysiology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, or C.I.

Course Description
Anatomy and function of the nervous system, use of psychophysiological recording methods, and design of studies exploring the biological bases and indicators of behavior.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Spring

PSB6348 - The Neuroanatomical Basis of Psychological Function

Course Title
The Neuroanatomical Basis of Psychological Function

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, or C.I.

Course Description
Fundamental human neuroscience course that includes thorough review of neuroanatomy and physiology at cellular, anatomical and functional region levels in the context of psychological function.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Fall
PSB6352 - Neuroimaging Design and Analysis Methods

Course Title
Neuroimaging Design and Analysis Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Overview and hands-on practice in design of neuroimaging studies and analysis of neuroimaging data.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Spring

PSB6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Psychology

PSB6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Psychology
PSB6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Psychology

PSB7349 - Advanced Topics in Cognitive Neuroscience

**Course Title**
Advanced Topics in Cognitive Neuroscience

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing, or C.I. In-depth study of the neural substrates underlying cognitive processing (e.g., attention, memory, language) and the linkage between the brain and behavior.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Fall

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PSY - Psychology

PSY5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Psychology
PSY5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Psychology

PSY6216C - Research Methodology

Course Title
Research Methodology

Credits Hours
4

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to Industrial Organizational Psychology M.S., Clinical Psychology M.A., or Clinical Psychology M.S., or C.I.

Course Description
Logic and procedures of psychological research and evaluation; application of experimental and non-experimental techniques in analyzing psychological variables; review of relevant psychological research.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional
PSY6308C - Psychological Testing

Course Title
Psychological Testing

Credits Hours
4

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to Industrial Organizational Psychology M.S. or C.I.

Course Description
Theory of test construction, including test reliability and validity.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional

PSY6918 - Directed Research

Course Title
Directed Research

Credits Hours
0 - 99

Prerequisites
- Graduate standing and C.I.

Course Description
Directed Research.

College
College of Sciences

Department
Department of Psychology

PSY6949 - Cooperative Education in Psychology

Course Title
Cooperative Education in Psychology

Credits Hours
0 - 99

College
College of Sciences

Department
Department of Psychology
PSY6971 - Thesis
Course Title
Thesis
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology

PSY7217C - Advanced Research Methodology I
Course Title
Advanced Research Methodology I
Credits Hours
4
Lab/Studio/Field Work Hours
2
Prerequisites
- Admission to Psychology Ph.D. or C.I.
Course Description
Logic and procedures of psychological research and evaluation; application of experimental and non-experimental techniques in analyzing psychological variables; review of relevant psychological research.
College
College of Sciences
Department
Department of Psychology
Terms of Offering
Occasional
PSY7218C - Advanced Research Methodology II
Course Title
Advanced Research Methodology II

Credits Hours
4

Lab/Studio/Field Work Hours
2

Prerequisites
- PSY 7217C or C.I.

Course Description
Structure and planning of complex psychological experiments; internal and external validity; application of advanced experimental procedures in analyzing psychological variables; review of relevant psychological research.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional

PSY7219C - Advanced Research Methodology III
Course Title
Advanced Research Methodology III

Credits Hours
4

Lab/Studio/Field Work Hours
2

Prerequisites
- PSY 7217C and PSY 7218C, or C.I.

Course Description
Application of research design and statistical problems to selected human factors, industrial and/or clinical settings.

College
College of Sciences

Department
Department of Psychology

Terms of Offering
Occasional
**PSY7315 - Psychometric Theory and Practice**

**Course Title**
Psychometric Theory and Practice

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- PSY 6216C and graduate admission.

**Course Description**
The construction, evaluation, and use of psychological measures; classical test theory, views of reliability, and item analysis; validity; generalizability theory; item response theory.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Spring

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**PSY7919 - Research**

**Course Title**
Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Psychology

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**PUP - Public Policy**

**PUP5917 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
School of Politics, Security, and International Affairs
PUP5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
School of Politics, Security, and International Affairs

PUP6208 - Environmental Politics

Course Title
Environmental Politics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to a graduate degree-seeking program or C.I.

Course Description
Examines the political ideas and practices which have shaped environmental politics and practices in the U.S.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
PUP6247 - Contemporary Issues in Environmental Politics

Course Title
Contemporary Issues in Environmental Politics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
A detailed examination of recent developments in one or more areas of environmental politics. Topics may include land and water regulation and pollution control.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional

PUP6607 - Politics of Health

Course Title
Politics of Health

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate or post bac status.

Course Description
Analysis of public health policies, primary focus upon political processes, policy makers, and interest groups. Comparative health practices.

College
College of Sciences

Department
School of Politics, Security, and International Affairs

Terms of Offering
Occasional
PUP6909 - Research Report  
**Course Title**  
Research Report  
**Credits Hours**  
1 - 99  
**College**  
College of Sciences  
**Department**  
School of Politics, Security, and International Affairs

PUP6918 - Directed Research  
**Course Title**  
Directed Research  
**Credits Hours**  
1 - 99  
**College**  
College of Sciences  
**Department**  
School of Politics, Security, and International Affairs

PUP6938 - Special Topics/Public Policy  
**Course Title**  
Special Topics/Public Policy  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Course Description**  
Admission to graduate program or C.I. This course title covers all public policy special topics courses which are not listed in the catalog with a course number. May be repeated for credit only when course content is different.  
**College**  
College of Sciences  
**Department**  
School of Politics, Security, and International Affairs  
**Terms of Offering**  
Occasional

**PUR - Public Relations**
PUR5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

PUR5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

PUR6005 - Theories of Public Relations

**Course Title**
Theories of Public Relations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Communication M.A. program or C.I.

**Course Description**
Focus on theories of public relations with implications for communications practices in corporate and other organizations and government agencies.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Occasional
PUR6215 - Communicating Corporate Social Responsibility

Course Title
Communicating Corporate Social Responsibility

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Communication processes required for developing, implementing, publicizing, and evaluating corporate social responsibility program in organizations.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional

PUR6403 - Crisis Public Relations

Course Title
Crisis Public Relations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
The course examines the management of crisis situations from a PR perspective, as well as how to manage issues to prevent them from becoming crises.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional
PUR6405 - Communication and Public Relations in Politics and Government

**Course Title**
Communication and Public Relations in Politics and Government

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
COM 6008 or C.I. Role of professional and practical public relations communication skills and knowledge in contemporary politics and government.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Fall

PUR6918 - DIRECTED INDIVIDUAL Research IN PUBLIC RELATIONS

**Course Title**
DIRECTED INDIVIDUAL Research IN PUBLIC RELATIONS

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

QMB - Quantitative Methods in Business

QMB5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Business Administration

**Department**
Department of Economics
QMB5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Business Administration

Department
Department of Economics

QMB6010 - Mathematical Tools for Business Analytics

Course Title
Mathematical Tools for Business Analytics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Acceptance into a graduate business program of study.

Course Description
Introduction to the most used mathematical tools in business analytics, specifically, different and integral calculus as well as linear algebra.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Occasional
QMB6304 - Data Visualization

Course Title
Data Visualization

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
This course will use data visualization concepts and tools to analyze complex data sets, create visual insights that generate action using dashboards, and cover narrative and storytelling best-practices. Using data visualization software, students will create various chart types and visualization, use calculations for the purpose of data manipulation, use parameters to control data values, create visualization using geo-mapping techniques, combine data sources for blending and preparing data for analysis.

College
College of Business Administration

Department
Department of Management

Terms of Offering
Occasional

QMB6357 - Microeconomic Analysis for Business Analytics

Course Title
Microeconomic Analysis for Business Analytics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Introduction to the main tools of microeconomic analysis for use in business analytics.

College
College of Business Administration

Department
Department of Economics

Terms of Offering
Spring
QMB6358 - Software Tools for Business Analytics

Course Title
Software Tools for Business Analytics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into the MSM Business Analytics program.

Course Description
Introduction to the main software tools used in business analytics, specifically, Python, R, and SQLite as well as UNIX.

College
College of Business Administration

Department
Department of Economics

Terms of Offering
Occasional

QMB6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Economics
QMB6912 - Capstone Project in Business Analytics
Course Title
Capstone Project in Business Analytics
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
Admission into the MSM Business Analytics program, successful completion of all required courses in the program, permission of instructor.
Course Description
Integration of all the tools developed in the program to solve an empirical problem.
College
College of Business Administration
Department
Department of Economics
Terms of Offering
Occasional

QMB6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Department of Economics

QMB6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Business Administration
Department
Department of Economics
QMB7567 - Measurement Theory in Business Research

**Course Title**
Measurement Theory in Business Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Business Administration Ph.D. program.

**Course Description**
This course provides doctoral students with a foundation in psychometrics and general measurement theory for economic, psychological and sociological-based business research.

**College**
College of Business Administration

**Department**
College of Business Administration Dean's Office

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QMB7919 - Research

**Course Title**
Research

**Credits Hours**
1 - 99

**College**
College of Business Administration

**Department**
Department of Economics

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QMB7939 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Business Administration

**Department**
Department of Economics

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RED - Reading Education
RED5147 - Developmental Reading

Course Title
Developmental Reading

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Principles, procedures, organization, and current practices in the elementary reading program. Materials and methods of instruction.

College
College of Community Innovation and Education

Department
School of Teacher Education

RED5517 - Classroom Diagnosis and Development of Reading Proficiencies

Course Title
Classroom Diagnosis and Development of Reading Proficiencies

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- RED 5147 or equivalent.

Course Description
Classroom diagnosis and corrective teaching in reading; instructional materials. Case study required.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
- Spring
- Even Fall

RED5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education
**RED5937 - Special Topics**

- **Course Title**: Special Topics
- **Credits Hours**: 3
- **College**: College of Community Innovation and Education
- **Department**: School of Teacher Education

**RED5948 - Practicum in Reading Assessment and Instruction**

- **Course Title**: Practicum in Reading Assessment and Instruction
- **Credits Hours**: 3
- **Lab/Studio/Field Work Hours**: 0
- **Prerequisites**: RED 5517.
- **Course Description**: Practicum that requires application of reading assessment and instruction in order to increase reading proficiency of struggling readers. Concurrent K-12 field experiences required.
- **College**: College of Community Innovation and Education
- **Department**: School of Teacher Education
- **Terms of Offering**: Every Semester
RED6116 - Advanced Study in Foundations of Reading

Course Title
Advanced Study in Foundations of Reading

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- RED 5147 or C.I.

Course Description
Historical development and current research-based practice related to language and cognitive foundations of reading components: phonemic awareness, phonics, vocabulary, fluency, comprehension, investigation of research.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Every Semester

RED6336 - Teaching Content Area and Disciplinary Literacy

Course Title
Teaching Content Area and Disciplinary Literacy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Basic Teacher Certificate or C.I.

Course Description
Differentiation of and strategies for content area reading and disciplinary literacy instruction for K-12 readers; focus on print and digital texts.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall
RED6337 - Reading in the Secondary School

Course Title
Reading in the Secondary School

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- RED 6336, Basic Teacher Certification, or C.I.

Course Description
Motivation and engagement of the adolescent reader. Strategies for differentiation to support all proficient and non-proficient adolescent readers.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall

RED6746 - Literacy Leadership and Coaching

Course Title
Literacy Leadership and Coaching

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- RED 5517 or C.I.

Course Description
Collaboration with stakeholders to plan, implement, and supervise reading programs in K-12 settings, including data mining and professional development. Exploration of coaching models and facilitation of a school-wide literate environment.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
RED6845 - Advanced Evaluation and Instruction in Reading

Course Title
Advanced Evaluation and Instruction in Reading

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- RED 5517 or C.I.

Course Description
Administration and interpretation of formal and informal evaluation techniques. Instructional strategies (including multisensory and motivation) contributing to reading achievement at classroom and individual level. Emphasis on parent involvement.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring

RED6846 - Reading Practicum

Course Title
Reading Practicum

Credits Hours
6

Lab/Studio/Field Work Hours
6

Prerequisites
- RED 6845 or C.I.

Course Description
Evaluation and instructional practices for the individualization of reading instruction in a supervised clinical setting. Development of personalized instructional plan and parent communication.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
RED6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

RED6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

RED6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
School of Teacher Education

RED6946 - Practicum, Clinical Practice
Course Title
Practicum, Clinical Practice
Credits Hours
3
Lab/Studio/Field Work Hours
0
College
College of Community Innovation and Education
Department
School of Teacher Education
**RED7648 - Analysis and Evaluation of Trends and Issues in Literacy Education**

**Course Title**
Analysis and Evaluation of Trends and Issues in Literacy Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- RED 7797.

**Course Description**
Critical analysis and evaluation of trends and issues in literacy education: research, policy, and instruction.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Even Summer

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**RED7697 - Literacy for the Twenty-First Century**

**Course Title**
Literacy for the Twenty-First Century

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- RED 6116, RED 7797, RED 7648.

**Course Description**
Investigates changing role of literacy in a technology-based world; explores issues of literacy in an increasingly diverse world.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring
**RED7743 - Reading and Writing Processes**

**Course Title**
Reading and Writing Processes

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- RED 5147 or equivalent.

**Course Description**
Investigates reading and writing as interrelated processes; focuses on research that shapes reading and writing instruction in the U.S.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring

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**RED7745 - Research in Reading Education Seminar**

**Course Title**
Research in Reading Education Seminar

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- RED 5147 or equivalent; RED 6116.

**Course Description**
The study of the reading research process and the design of a research proposal in the reading education field.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Even Fall
RED7797 - Theoretical Processes of Reading Comprehension

Course Title
Theoretical Processes of Reading Comprehension

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- RED 5147 or equivalent.

Course Description
Investigates theoretical processes and factors related to comprehension. Studies relevant issues and research.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall
Spring

RED7919 - Doctoral Research

Course Title
Doctoral Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education
RED7947 - Internship in Reading Education

Course Title
Internship in Reading Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the PhD in Education--Reading Education Track.

Course Description
College teaching of reading education courses under supervision of reading education faculty mentor.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall

REE - Real Estate

REE5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Finance

REE5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Business Administration

Department
Department of Finance
**REE6006 - Real Estate Markets and Institutions**

**Course Title**
Real Estate Markets and Institutions

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Acceptance into the MS Real Estate program.

**Course Description**
Overview of the core real estate concepts, property fundamentals, and the role of various institutions in real estate transactions and operations.

**College**
College of Business Administration

**Department**
Department of Finance

**Terms of Offering**
Occasional

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**REE6147 - Real Estate Market Analysis and Appraisal**

**Course Title**
Real Estate Market Analysis and Appraisal

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- FIN 6406, acceptance into the MS Real Estate program.

**Course Description**
An applied introduction to the major concepts, principles and methods used in appraising commercial real estate, performing market analysis, and basic economic analysis.

**College**
College of Business Administration

**Department**
Department of Finance

**Terms of Offering**
Occasional
REE6209 - Real Estate Finance and Investment Analysis

Course Title
Real Estate Finance and Investment Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• FIN 6406, acceptance into the MS Real Estate program.

Course Description
Direct real estate investing in the apartment, office, industrial and retail sectors. Financing real estate transactions, real estate capital markets, and investment analysis.

College
College of Business Administration

Department
Department of Finance

Terms of Offering
Occasional

REE6380 - Financial Analysis of Real Estate Firms

Course Title
Financial Analysis of Real Estate Firms

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• FIN 6406.

Course Description
Focus on advanced financial statement analysis and valuations for real estate firms.

College
College of Business Administration

Department
Dr P Phillips School of Real Estate

Terms of Offering
Occasional
REE6418 - Real Estate Contracts and Negotiations

Course Title
Real Estate Contracts and Negotiations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Acceptance into the MS Real Estate Program.

Course Description
The course covers various legal and ethical concepts applicable to the real estate industry including contracts, securities laws, construction management, negotiations, and entity structure.

College
College of Business Administration

Department
Department of Finance

Terms of Offering
Odd Spring

REE6455 - Real Estate Law

Course Title
Real Estate Law

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Acceptance into the MS Real Estate program.

Course Description
Overview of the legal system and key laws affecting real estate. Emphasis on property rights, contracts, development law, theory of title, and commercial leases.

College
College of Business Administration

Department
Department of Finance

Terms of Offering
Occasional
REE6737 - Real Estate Development

Course Title
Real Estate Development

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Must take in final term of the MS Real Estate program.

Course Description
Capstone project course covering the real estate development process, regulatory considerations, financial and market feasibility, management control, and environmental aspects of real estate development.

College
College of Business Administration

Department
Department of Finance

Terms of Offering
Occasional

REE6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Finance

REE6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Department of Finance
REE6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Business Administration

**Department**
Department of Finance

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REE7935 - Seminar in Finance and Real Estate Research

**Course Title**
Seminar in Finance and Real Estate Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to business doctoral program and ECO 6416 or equivalent.

**Course Description**
An introduction to doctoral-level topics in finance, real estate research; including land economics, spatial markets for real property, and the economics of property law.

**College**
College of Business Administration

**Department**
Department of Finance

**Terms of Offering**
Even Fall

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**REL - Religion**

REL5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Arts and Humanities

**Department**
Department of Philosophy

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**SCE - Science Education**
SCE5325 - Teaching Middle School Science

**Course Title**
Teaching Middle School Science

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDG 6415, TSL 5085 or admission to MED program or Initial Teacher Professional Preparation certificate.

**Course Description**
This course will provide experiences that promote effective science teaching in grades 5-9 including interdisciplinary teaming, technology use, ESOL, and inquiry in science.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Occasional

SCE5337 - Issues and Methods in Secondary School Science

**Course Title**
Issues and Methods in Secondary School Science

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- EDG 6415, TSL 5085, or admission to MED program or Initial Teacher Professional Preparation certificate.

**Course Description**
Secondary science education special methods course is designed to augment students' understanding of instructional methods and their applications to middle and high school science curriculum.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring
Fall
SCE5836 - Space and Physical Science for Educators

Course Title
Space and Physical Science for Educators

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Introduction to space and physical science, manned space flight, and space education curriculum.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer

SCE5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

SCE5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits Hours</th>
<th>Lab/Studio/Field Work Hours</th>
<th>Prerequisites</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>SCE6315</td>
<td>Methods in Elementary School Science</td>
<td>3</td>
<td>0</td>
<td>EDE 6933 or C.I.</td>
<td>Organization of instruction in elementary school science including methods, evaluation, materials, strategies, and current practices.</td>
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<td>SCE6909</td>
<td>Research Report</td>
<td>1 - 99</td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>SCE6918</td>
<td>Directed Research</td>
<td>1 - 99</td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>
SCE6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education

SCE7145 - Design of Post Secondary Science Curriculum

Course Title
Design of Post Secondary Science Curriculum

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing, admission to the PhD or EdD Education programs, and C.I.

Course Description
Successful completion of ESE 6217 or an approved equivalent. This course will examine issues of curriculum theory, research, and practice at the post-secondary level situated in science education.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Odd Fall
SCE7146 - Professional Issues in Science Education

**Course Title**
Professional Issues in Science Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the PhD in Education or C.I.

**Course Description**
Students will study issues and forces that have shaped science education policies, classroom practices, ethics development, and professional identity.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

SCE7242 - Assessment in Science Teaching, Learning and Research

**Course Title**
Assessment in Science Teaching, Learning and Research

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Doctoral standing, admission to the PhD or EdD Education programs, and C.I.

**Course Description**
This course will examine current instruments/tools used in science assessment covering standardized science testing and authentic and performance-based science assessments.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Odd Fall
SCE7746 - Teaching Theory and Research in Science Education  
**Course Title**  
Teaching Theory and Research in Science Education  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Admission to the PhD in Education or C.I.  

**Course Description**  
Course will provide students means to become familiar with trends and current status of research in science teaching and learning.  

**College**  
College of Community Innovation and Education  

**Department**  
School of Teacher Education  

SCE7864 - Science Technology and Society  
**Course Title**  
Science Technology and Society  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Admission to the PhD in Education or C.I.  

**Course Description**  
The course is focused on the history of science in the U.S. with particular emphasis on institutional configurations that emerged in the period since nationhood.  

**College**  
College of Community Innovation and Education  

**Department**  
School of Teacher Education
SCE7935 - Seminar–Professional Writing/Grants in Science Education

Course Title
Seminar–Professional Writing/Grants in Science Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the Ph.D. in Education or C.I.

Course Description
The focus of the course is on scholarly writing and grant writing in science teaching, learning, assessment and relationships.

College
College of Community Innovation and Education

Department
School of Teacher Education

SCE7942 - Internship/Practicum in Science Education

Course Title
Internship/Practicum in Science Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the PhD in Education or C.I.

Course Description
The focus of this course is students' participation in current research projects in science/science education.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Every Semester
SCE7980 - Doctoral Dissertation

Course Title
Doctoral Dissertation

Credits Hours
0 - 99

Lab/Studio/Field Work Hours
0

Prerequisites
- Taken and passed comprehensive exam.

Course Description
Approval of Education Ph.D SCE?track program coordinator. May be repeated for credit.

College
College of Community Innovation and Education

Department
School of Teacher Education

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SDS - Student Development Services

SDS5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

SDS5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology
SDS6200 - Procedures for Group Testing

Course Title
Procedures for Group Testing

Credits Hours
3

Lab/Studio/Field Work Hours
1

Prerequisites
- EGC 5005 or EGC 6426, EDF 6481 or EDF 6482.

Course Description
Survey of various educational and psychological objective instruments used in schools to measure achievement, aptitude, interests, ability. Emphasis on administration and score interpretation.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Occasional

SDS6308 - Applied Practice in Career Services

Course Title
Applied Practice in Career Services

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
SDS 6347 and SDS 6XXX Career and College Readiness in Schools PK-12. This course provides an opportunity to work with individuals in various school and community settings to experience career development activities.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Fall
SDS6347 - Career Development

Course Title
Career Development

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
A study of career development theories, occupational and educational information, approaches to career decision-making life-style and leisure in the development of the whole person.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Summer
Fall

SDS6411 - Counseling with Children and Adolescents

Course Title
Counseling with Children and Adolescents

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- EGC 6436 and EDF 6155 or C.I.

Course Description
Study of counseling theory, process, and techniques as applied to children and adolescents. Course will contain an experiential component.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring
SDS6620 - Coordination of Comprehensive Professional School Counseling Programs

Course Title
Coordination of Comprehensive Professional School Counseling Programs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MHS 5005, MHS 6400, MHS 6401, MHS 6500, MHS 6702.

Course Description
In-depth analysis of comprehensive developmental professional school counseling programs, including the coordination of these programs.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Odd Spring
Summer

SDS6622 - Career and College Readiness in Schools PK-12

Course Title
Career and College Readiness in Schools PK-12

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. This course provides graduate students and practitioners with a developmental overview of child and adolescent career growth focusing on interventions for career education and counseling.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring
SDS6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

SDS6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

SDS6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology
SDS6947 - Internship in Professional School Counseling

**Course Title**
Internship in Professional School Counseling

**Credits Hours**
1 - 6

**Lab/Studio/Field Work Hours**
6-Jan

**Prerequisites**
- MHS 5005, MHS 6400, MHS 6401, MHS 6500, MHS 6702, MHS 6803, SDS 6620.

**Course Description**
Supervised fieldwork experience in professional school counseling, emphasizing experiences that support the development of student interns' counseling competencies and delivery of comprehensive services to all students.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Even Fall
Even Spring
Even Summer

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**SOP - Social Psychology**

**SOP5059 - Advanced Social Psychology**

**Course Title**
Advanced Social Psychology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- SOP 3004C, graduate status or senior standing, or C.I.

**Course Description**
The major findings and theories in social psychology including an in-depth review of relevant research.

**College**
College of Sciences

**Department**
Department of Psychology

**Terms of Offering**
Occasional
SOP5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology

SOP5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Psychology

SOP6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology

SOP6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Psychology
**SOP6938 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Psychology

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**SOW - Social Work**

**SOW5107 - Human Behavior in the Social Environment**

**Course Title**
Human Behavior in the Social Environment

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to MSW program.

**Course Description**
Study of human development and psychosocial functioning of individuals, groups, families and communities with particular attention to implications of human diversity.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Every Semester
SOW5132 - Diverse Client Populations

Course Title
Diverse Client Populations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Study of human diversity, focusing on the needs, resources, problems, and service issues of several identified minority client populations.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Spring

SOW5217 - Foundations of Behavioral Health Policy and Social Work Practice

Course Title
Foundations of Behavioral Health Policy and Social Work Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MSW program.

Course Description
This course helps students think critically about mental health services by analyzing the factors that influence global behavioral health policies.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Every Semester
SOW5235 - Social Welfare Policies and Services

Course Title
Social Welfare Policies and Services

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Study of societal responses to human needs; forces shaping social welfare systems; introduces frameworks for analyzing social policies and services.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Fall

SOW5305 - Social Work Practice I: Generalist Practice

Course Title
Social Work Practice I: Generalist Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Study of social work functions, knowledge, values, roles and skills; the use of a generalist model of practice.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Fall
SOW5306 - Social Work Practice II: Intervention Approaches
Course Title
Social Work Practice II: Intervention Approaches

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Study of selected social work theories, strategies, and techniques for helping people and improving system responsiveness to human needs.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Spring

SOW5404 - Social Work Research
Course Title
Social Work Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Study of group research designs in social work; quantitative analyses; and related ethical issues.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Fall
SOW5538 - Full-Time MSW Generalist Field Integrative Seminar I

Course Title
Full-Time MSW Generalist Field Integrative Seminar I

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Social Work program or C.I.

Corequisites
- SOW 5305 and SOW 5940

Course Description
Field education seminar for full-time MSW generalist students.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Fall

SOW5539 - Full-Time MSW Generalist Field Integrative Seminar II

Course Title
Full-Time MSW Generalist Field Integrative Seminar II

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- SOW 5538

Corequisites
- SOW 5306 and SOW 5940

Course Description
Field education seminar for full-time Master of Social Work generalist students.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Spring
SOW5565 - Part-Time MSW Generalist Field Integrative Seminar I

Course Title
Part-Time MSW Generalist Field Integrative Seminar I

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- SOW 5305

Corequisites
- SOW 5306 and SOW 5940

Course Description
Field education seminar course for part-time MSW generalist students.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Fall

SOW5566 - Part-Time MSW Generalist Field Integrative Seminar II

Course Title
Part-Time MSW Generalist Field Integrative Seminar II

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- SOW 5565

Corequisites
- SOW 5940.

Course Description
Field education seminar for part-time MSW generalist students.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Spring
SOW5567 - Part-Time MSW Generalist Field Integrative Seminar III

**Course Title**
- Part-Time MSW Generalist Field Integrative Seminar III

**Credits Hours**
- 1

**Lab/Studio/Field Work Hours**
- 0

**Prerequisites**
- SOW 5566.

**Corequisites**
- SOW 5940

**Course Description**
- Field education seminar course for part-time MSW generalist students.

**College**
- College of Health Professions and Sciences

**Department**
- School of Social Work

**Terms of Offering**
- Summer

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SOW5917 - Directed Research

**Course Title**
- Directed Research

**Credits Hours**
- 1 - 99

**College**
- College of Health Professions and Sciences

**Department**
- School of Social Work

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SOW5937 - Special Topics

**Course Title**
- Special Topics

**Credits Hours**
- 1 - 99

**College**
- College of Health Professions and Sciences

**Department**
- School of Social Work
SOW5940 - Generalist Field Education

Course Title
Generalist Field Education

Credits Hours
1 - 99

Course Description
Admission to MSW program. Field education for Master of Social Work generalist students; includes supervised practice of social work in an agency for 200 clock hours.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Every Semester

SOW6109 - Violence Against Women: A Global Perspective

Course Title
Violence Against Women: A Global Perspective

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
An introduction to the types of violence imposed on women around the world. Social, political and economic issues related to women and violence are reviewed.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Summer
SOW6123 - Psychosocial Pathology
Course Title
Psychosocial Pathology
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Completion of all Master of Social Work core courses or advanced standing.
Course Description
Study of psychosocial dynamics of dysfunctional behavior in individuals.
College
College of Health Professions and Sciences
Department
School of Social Work
Terms of Offering
Summer

SOW6149 - Military Culture and Social Work Practice
Course Title
Military Culture and Social Work Practice
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to Master of Social Work program or C.I.
Course Description
Provides a detailed overview of the practice of social work with these military connected clients, families, and communities.
College
College of Health Professions and Sciences
Department
School of Social Work
Terms of Offering
Every Semester
SOW6155 - Human Sexuality in Social Work Practice  
**Course Title**  
Human Sexuality in Social Work Practice  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Admission to Master of Social Work program, Graduate Certificate in Gender Studies or C.I.  

**Course Description**  
Study of human sexuality with emphasis on assessment and intervention skills for social workers with clients experiencing problems involving sexual issues.  

**College**  
College of Health Professions and Sciences  

**Department**  
School of Social Work  

**Terms of Offering**  
Occasional  

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SOW6324 - Clinical Practice with Groups  
**Course Title**  
Clinical Practice with Groups  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- SOW 6123.  

**Course Description**  
Group work theories, interventions and techniques applied to persons with emotional, social and psychological problems.  

**College**  
College of Health Professions and Sciences  

**Department**  
School of Social Work  

**Terms of Offering**  
Spring  
Fall
SOW6348 - Clinical Practice with Individuals

Course Title
Clinical Practice with Individuals

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- SOW 6123.

Course Description
Behavioral, crisis, and psychosocial theories applied to persons with emotional, social, and psychological problems.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Fall

SOW6383 - Social Work Administration

Course Title
Social Work Administration

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Master of Social Work program or C.I. Designed as a general introduction to the multi-faceted nature of social work administration in public and private non-profit settings.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Occasional
SOW6424 - Theories for Evidence-Based Clinical Practice in Social Work

**Course Title**
Theories for Evidence-Based Clinical Practice in Social Work

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Completion of all Master of Social Work core courses or advanced standing.

**Course Description**
Theoretical perspectives including: Cognitive; Cognitive Behavioral; Feminist Therapy; Psycho-dynamic Therapy; Motivational Interviewing; Rational Emotive Behavioral Therapy; Solution-focused Therapy; and Narrative Therapy.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Summer

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SOW6433 - Clinical Evaluation in Social Work Practice

**Course Title**
Clinical Evaluation in Social Work Practice

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
SOW 5404. Students will learn to critically analyze and apply specific research designs and analytical methods for systematic evaluation of clinical interventions, services, and programs.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Every Semester
SOW6531 - Full Time MSW Clinical Field Integrative Seminar I

Course Title
Full Time MSW Clinical Field Integrative Seminar I

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- SOW 6123 and SOW 6424.

Corequisites
- SOW 6940

Course Description
Field education seminar for full-time Master of Social Work students.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Fall

SOW6536 - Full Time MSW Clinical Field Integrative Seminar II

Course Title
Full Time MSW Clinical Field Integrative Seminar II

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- SOW 6531.

Course Description
Field education for full-time Master of Social Work clinical students; includes seminar and supervised practice of social work in an agency for 300 clock hours.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Spring
SOW6561 - Part-Time MSW Clinical Field Integrative Seminar I

**Course Title**
Part-Time MSW Clinical Field Integrative Seminar I

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- SOW 6123 and SOW 6424.

**Corequisites**
- SOW 6940

**Course Description**
Field education seminar for part-time Master of Social Work students.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Fall

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SOW6562 - Part Time MSW Clinical Field Integrative Seminar II

**Course Title**
Part Time MSW Clinical Field Integrative Seminar II

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- SOW 6561.

**Corequisites**
- SOW 6940

**Course Description**
Field seminar education for part time Master of Social Work clinical students.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Spring
SOW6563 - Part-Time MSW Clinical Field Integrative Seminar III

Course Title
Part-Time MSW Clinical Field Integrative Seminar III

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- SOW 6562.

Corequisites
- SOW 6563

Course Description
Field education seminar for part-time MSW clinical students.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Summer

SOW6603 - Social Work in Health Settings

Course Title
Social Work in Health Settings

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Master of Social Work program or C.I. Study of social work roles, interventions, and issues related to helping clients in health care settings.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Occasional
SOW6604 - Medications in Social Work Practice

**Course Title**
Medications in Social Work Practice

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Master of Social Work program and SOW 6123, or C.I.

**Course Description**
The study of the effects that psychotropic medications can have within the counseling/helping relationship.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Occasional

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SOW6608 - Understanding and Managing Combat Related Behavioral and Mental Health Disorders

**Course Title**
Understanding and Managing Combat Related Behavioral and Mental Health Disorders

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- SOW 6149.

**Course Description**
Advances students’ knowledge about the unique nature of trauma, PTSD and other mental health disorders as they relate to combat-exposed soldiers, veterans, their families and other military experiences.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Spring
SOW6610 - Clinical Practice with Military and Veteran Families or Groups

**Course Title**
Clinical Practice with Military and Veteran Families or Groups

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- SOW 6149.

**Course Description**
Theoretical/practical approaches to clinical practice with military families and groups. Examines the demands of military service on family/group dynamic, composition and related issues.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Spring

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SOW6612 - Clinical Practice with Families

**Course Title**
Clinical Practice with Families

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- SOW 6123.

**Course Description**
Family-focused models of intervention applied to families in transition and to problems such as divorce, single parenting, and blended families.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Fall
SOW6635 - Social Work Practice in Schools

Course Title
Social Work Practice in Schools

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MSW program or Social Work Graduate Certificate or C.I.

Course Description
Enhance clinical knowledge and skills that are essential to effective school based practice with students, teachers, families, schools and communities.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Summer

SOW6644 - Interventions with Older Adults and Their Families

Course Title
Interventions with Older Adults and Their Families

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Master of Social Work program or C.I. Study of concepts, skills, models and theories for intervening with the elderly. Special attention is given to minority populations.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Occasional
SOW6652 - Child Welfare Services

Course Title
Child Welfare Services

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Master of Social Work program or C.I.

Course Description
Provides a framework of knowledge, values and skills necessary to work with maltreated children and their families. It also serves to introduce students to the field of Child Welfare (CW).

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Spring

SOW6655 - Child Abuse: Treatment and Prevention

Course Title
Child Abuse: Treatment and Prevention

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MSW degree or SW or Criminal Justice Certificate program.

Course Description
Study of various forms of child abuse, the social worker's role and interventions with victims of child abuse and their family members.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Occasional
SOW6670 - Clinical Social Work Practice with LGBTQ+

**Course Title**
Clinical Social Work Practice with LGBTQ+

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Master of Social Work and SOW 6123 or C.I.

**Course Description**
Focus on Social Work resources, social policy and clinical assessment, diagnosis and therapeutic interventions of LGBTQ+ individuals, families, groups and communities.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Occasional

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SOW6712 - Clinical Social Work Practice with Substance Addictions

**Course Title**
Clinical Social Work Practice with Substance Addictions

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Admission to Master of Social Work program, Juvenile Justice certificate, or Corrections Leadership certificate, or C.I. The most common substance addictions are identified along with current evidence-based practice strategies.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Occasional
SOW6713 - Prevention and Treatment of Adolescent Substance Use and Misuse

**Course Title**
Prevention and Treatment of Adolescent Substance Use and Misuse

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Master of Social Work program or C.I.

**Course Description**
Clinical application and analysis of prevention, intervention, treatment, recovery, relapse issues and public policy regarding adolescents with substance use addictions.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Occasional

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SOW6726 - Social Work Practice with Children from Birth to Age Five and their Families

**Course Title**
Social Work Practice with Children from Birth to Age Five and their Families

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Social Work practice and treatment of children from birth to five years of age and their families.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Spring
Core Concepts of Child and Adolescent Trauma

Course Title
Core Concepts of Child and Adolescent Trauma

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Trauma informed concepts applied to practice with children and adolescents.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Every Semester

Documentation Skills for Helping Professionals

Course Title
Documentation Skills for Helping Professionals

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MSW students, C.I.

Course Description
Study of documentation skills and record keeping for helping professionals.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Odd Spring
Even Summer
SOW6756 - Forensic Social Work

Course Title
Forensic Social Work

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MSW program or Social Work Certificate.

Course Description
Course studies theories and practice of forensic social work focusing on roles, ethics, skills and functions.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Occasional

SOW6806 - Behavioral Health Skills for Clinical Social Workers

Course Title
Behavioral Health Skills for Clinical Social Workers

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Master of Social Work and SOW 6123. Provides comprehensive knowledge and skills for providing behavioral health interventions in medical and behavioral health settings.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Odd Summer
SOW6846 - Spirituality in Clinical Social Work Practice

Course Title
Spirituality in Clinical Social Work Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MSW or Social Work Certificate program.

Course Description
Faith development theory, study of spirituality in various settings and development of strategies for use in practice designed to heighten sensitivity to spiritual dimensions of life.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Occasional

SOW6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
School of Social Work

SOW6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
School of Social Work
SOW6938 - Special Topics

Course Title
Special Topics

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
School of Social Work

SOW6940 - Clinical Field Education

Course Title
Clinical Field Education

Credits Hours
1 - 99

Course Description
Admission to MSW program. Field education for Master of Social Work students; includes supervised practice of social work in an agency for 300 clock hours.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Every Semester

SOW6949 - Cooperative Education in Social Work

Course Title
Cooperative Education in Social Work

Credits Hours
0 - 99

College
College of Health Professions and Sciences

Department
School of Social Work
SOW7215 - Advances in Behavioral Health Policy in the US and Abroad

**Course Title**
Advances in Behavioral Health Policy in the US and Abroad

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to DSW program or C.I.

**Course Description**
Critical analysis of the historical foundations and evolution of public policy in the United States and abroad.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Fall

SOW7339 - Community Partnership and Leadership in Behavioral Health Organizations

**Course Title**
Community Partnership and Leadership in Behavioral Health Organizations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the DSW Program or C.I.

**Course Description**
Critical analysis of the field of community behavioral health practice, including community accountability, community behavioral health assessment, organizing, policy advocacy, and social services and social change leadership in behavioral health organizations.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Spring

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2021-2022 Graduate Catalog
SOW7421 - Data Management for Decision Making in Behavioral Health Social

**Course Title**
Data Management for Decision Making in Behavioral Health Social

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to DSW program or C.I.

**Course Description**
Evaluates types and uses of primary and secondary data relevant to behavioral health decision making and applications of data management and presentation through the use of innovative computer technology.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Summer

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SOW7444 - Program Evaluation in Behavioral Health Organization

**Course Title**
Program Evaluation in Behavioral Health Organization

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to DSW program or C.I.

**Course Description**
Focuses on concepts, data, methods and dissemination of evaluation outcomes in behavioral health organizations that provide social work services.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Fall

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2021-2022 Graduate Catalog
SOW7450 - Grant Writing for Behavioral Health

Course Title
Grant Writing for Behavioral Health

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the DSW Program or C.I.

Course Description
Advances knowledge and skills in grant writing for behavioral health program planning, service delivery, and intervention research.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Summer

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SOW7492 - Theory Building in Social Work and Applied Social Science Disciplines

Course Title
Theory Building in Social Work and Applied Social Science Disciplines

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program or C.I.

Course Description
This advanced seminar in theory building will teach design, tools and methods used in social theory building.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Odd Fall
SOW7494 - Conducting Evidence-based Practice Research in Social Work and Allied Fields

Course Title
Conducting Evidence-based Practice Research in Social Work and Allied Fields

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Public Affairs Ph.D. program or C.I.

Course Description
This is an advanced seminar in conducting evidence-based practice research. Analytical design and methods used in such research will be applied.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Even Spring

SOW7910 - DSW Capstone II: Behavioral Health Leadership

Course Title
DSW Capstone II: Behavioral Health Leadership

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the DSW Program and Completion of DSW Capstone I or C.I.

Course Description
A mentored research experience for students to complete a publishable article based on their completed review of evidence-based literature on a topic from Capstone I.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Spring
SOW7913 - DSW Capstone I: Behavioral Health Leadership

Course Title
DSW Capstone I: Behavioral Health Leadership

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to DSW Program or C.I.

Course Description
Mentored research experience for students to consolidate the DSW curriculum by developing a systematic review of evidence-based literature applied to an area of behavioral health practice in the student's area of interest.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Fall

SOW7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
School of Social Work
SOW7920 - Teaching Skills for Social Work Programs

Course Title
Teaching Skills for Social Work Programs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the DSW Program or C.I.

Course Description
Critically examines theory-based and evidence-based learning theory and employs experiential training using today's media and technology for teaching social work.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Fall

SOW7935 - Innovations in Behavioral Health: Current Topics and Program Development Workshop

Course Title
Innovations in Behavioral Health: Current Topics and Program Development Workshop

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to DSW Program or C.I.

Course Description
Seminar on current topics in the field of behavioral health aimed at developing expertise in the design of programmatic responses to these emergent topics.

College
College of Health Professions and Sciences

Department
School of Social Work

Terms of Offering
Spring
**SOW7939 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
1 - 99

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**SOW7956 - Workshop in Dissemination of Behavioral Health Research and Scholarship**

**Course Title**
Workshop in Dissemination of Behavioral Health Research and Scholarship

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the DSW Program or C.I.

**Course Description**
Experiential practice in developing presentation and publishable works aimed at extrapolating from the literature state of the art theory informed evidence for advancing best practices in behavioral health management.

**College**
College of Health Professions and Sciences

**Department**
School of Social Work

**Terms of Offering**
Spring

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**SPA - Speech Pathology and Audiology**

**SPA5917 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders
SPA5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

SPA6057 - Methods in School Speech-Language Pathology

Course Title
Methods in School Speech-Language Pathology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to M.A. in Communication Sciences and Disorders or C.I.

Course Description
The study of essential concepts, methods and procedures used in school-based, speech-language pathology.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Occasional
SPA6204 - Articulation/Phonological Dis

**Course Title**
Articulation/Phonological Dis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to M.A. in Communication Sciences and Disorders or C.I.

**Course Description**
Advanced theory, diagnosis, and treatment of articulation/phonological disorders including developmental apraxia of speech, dysarthria, and cleft palate; communicative differences vs. disorders emphasized.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Every Semester

**Current Fee Per Student**
$44.65

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SPA6211C - Voice Disorders

**Course Title**
Voice Disorders

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission to M.A. in Communication Sciences and Disorders or C.I.

**Course Description**
Study of the etiology, evaluation, and management of voice disorders in children and adults, with laboratory demonstration and participation.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Spring
Fall

**Current Fee Per Student**
$15.00
SPA6225C - Fluency Disorders

Course Title
Fluency Disorders

Credits Hours
4

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to M.A. in Communication Sciences and Disorders or C.I.

Course Description
Study of the theories, etiology, symptomatology and development of fluency disorders as well as assessment, differential diagnosis and management of disorders of fluency in children and adults with fluency failures.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
- Spring
- Fall

SPA6236 - Motor Speech Disorders in Adults and Children

Course Title
Motor Speech Disorders in Adults and Children

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to M.A. in Communication Sciences and Disorders and SPA 6204 or C.I.

Course Description

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
- Every Semester

Current Fee Per Student
$17.00
SPA6245 - Communication Disorders in Cleft Palate-Velopharyngeal Dysfunction

**Course Title**
Communication Disorders in Cleft Palate-Velopharyngeal Dysfunction

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- SPA 6204, SPA 6211C, or C.I.

**Course Description**
Introduction to the management of communication and feeding disorders related to cleft palate and/or velopharyngeal dysfunction.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Fall

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SPA6327 - Aural Habilitation Rehab

**Course Title**
Aural Habilitation Rehab

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to the Communication Sciences and Disorders master's program or C.I.

**Course Description**
Principles and procedures involved in speech and language acquisition, management, utilization of residual hearing, speech reading, and the use of hearing aids.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Every Semester

**Current Fee Per Student**
$28.49
SPA6401 - Language Disorders in Infants and Toddlers

Course Title
Language Disorders in Infants and Toddlers

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- SPA 6496

Course Description
Assessment and intervention of communication disorders in infants and toddlers incorporating transdisciplinary and family-centered models.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Fall

Current Fee Per Student
$12.00

SPA6410 - Aphasia and Related Disorders

Course Title
Aphasia and Related Disorders

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to M.A. in Communication Sciences and Disorders or C.I.

Course Description
Evaluation and treatment of language disorders in adults with damage to the central nervous system, with an emphasis on etiology and differential diagnosis.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Spring
Fall

Current Fee Per Student
$60.00
SPA6417 - Cognitive/Communicative Disorders

**Course Title**
Cognitive/Communicative Disorders

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- SPA 6410 or C.I.

**Course Description**
Evaluation and treatment of right hemisphere dysfunctions, traumatic brain injury, and dementias, with special emphasis on memory, cognition, pragmatics and other issues affecting functional communication.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Spring

**Current Fee Per Student**
$60.00

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SPA6432 - Issues in Autism

**Course Title**
Issues in Autism

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- SPA 6402 or C.I.

**Course Description**
Study of the diagnosis, assessment and intervention strategies for autism and related disorders.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Occasional
SPA6437 - Communication Foundations and Assistive/Instructional Technology for Communication

Course Title
Communication Foundations and Assistive/Instructional Technology for Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Classroom approaches involving assistive/instructional technology used to meet communication needs of students with autism spectrum disorders and other communicative disorders.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Occasional

SPA6453 - Management of Cognitive-Communication Disorders in Traumatic Brain Injury

Course Title
Management of Cognitive-Communication Disorders in Traumatic Brain Injury

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- SPA 6452 or C.I.

Course Description
Management of cognitive-communication disorders in traumatic brain injury of school-aged and post-secondary students with emphasis on attention, perceptual skills, executive function, learning and social interaction.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Occasional
SPA6474 - Assessment and Management of Culturally and Linguistically Diverse Populations

**Course Title**
Assessment and Management of Culturally and Linguistically Diverse Populations

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to MA in Communication Sciences or C.I.

**Course Description**
Role of native and second languages, dialects and culture in the assessment and management of individuals from culturally and linguistically diverse backgrounds.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Spring
Fall

**Current Fee Per Student**
$60.00

SPA6503 - Foundations of Clinical Practice Level II

**Course Title**
Foundations of Clinical Practice Level II

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- 6551 or C.I.

**Corequisites**
- 6503L.

**Course Description**
Seminar preparing graduate clinicians for practicum with pediatric/adolescents across varied communication disorders: clinical decision-making, generalization, transfer, maintenance, service delivery, ethics, public policy and professional issues.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Every Semester

2021-2022 Graduate Catalog
SPA6503L - Found Clinic Practice-II APP

**Course Title**
Found Clinic Practice-II APP

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- SPA 6551 or C.I.

**Corequisites**

**Course Description**
Supervised practicum across a variety of communication disorders within the pediatric and adolescent population. May be repeated for credit. Minimum of 20 clock hours required.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Every Semester

**Current Fee Per Student**
$20.80

SPA6541 - Assessment of Language Disorders in Children and Adolescents

**Course Title**
Assessment of Language Disorders in Children and Adolescents

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to M.A. in Communication Sciences and Disorders or C.I.

**Course Description**
The assessment of spoken and written language disorders in children and adolescents.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Every Semester
SPA6542 - Intervention of Language Disorders in Children and Adolescents

Course Title
Intervention of Language Disorders in Children and Adolescents

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to M.A. in Communication Sciences and Disorders or C.I.

Course Description
The nature and treatment of spoken and written language disorders in children and adolescents.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Every Semester

SPA6551 - Foundations of Clinical Practice: Level I

Course Title
Foundations of Clinical Practice: Level I

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Communication Sciences and Disorders master's program or C.I.

Course Description
Strategic application of knowledge in normal communication sciences and development to clinical practice through creating, testing and developing hypotheses about the nature of communication disorders.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Every Semester
SPA6553L - Clinical Practice in Differential Diagnosis in Speech and Language Pathology

**Course Title**
Clinical Practice in Differential Diagnosis in Speech and Language Pathology

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- SPA 6503, SPA 6503L or C.I.

**Course Description**
Clinical application of diagnostic process and assessment procedures for a variety of communication disorders across the life span. May be repeated for credit.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Every Semester

**Current Fee Per Student**
$44.00

SPA6559 - Augmentative and Alternative Communication

**Course Title**
Augmentative and Alternative Communication

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to M.A. in Communication Sciences and Disorders or C.I.

**Course Description**
The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Every Semester
SPA6563L - Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia

Course Title
Clinical Practice and Instrumental Diagnostics in Individuals with Dysphagia

Credits Hours
1

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to Communication Sciences and Disorders MA and SPA 6565 and SPA 6943C.

Course Description
Gain competency diagnosing and planning care in individuals with swallowing disorders across the lifespan. Students learn fluoroscopic interpretation and individualized care planning.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Occasional

SPA6565 - Feeding and Swallowing Disorders

Course Title
Feeding and Swallowing Disorders

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to M.A. in Communication Sciences and Disorders and SPA 6211C or C.I.

Course Description
Evaluation and management of feeding and swallowing disorders in children and adults.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Every Semester
SPA6569 - Management of Upper Airway and Aerodigestive Disorders

**Course Title**
Management of Upper Airway and Aerodigestive Disorders

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- SPA 6211C; SPA 6565.

**Course Description**
Overview of the presentation, diagnosis, management and potential complications of common upper airway and aerodigestive disorders in adults and children.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Occasional

**Current Fee Per Student**
$42.00

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SPA6805 - Research in Communicative Disorders

**Course Title**
Research in Communicative Disorders

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to M.A. in Communication Sciences and Disorders and STA 2014C or STA 2023 or equivalent or C.I.

**Course Description**
Introduction to empirical research in communicative disorders, with emphasis on hypothesis testing, research design, data analysis, and interpretation of results.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Every Semester
SPA6843 - Severe Language-Based Reading and Writing Disabilities

Course Title
Severe Language-Based Reading and Writing Disabilities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to M.A. in Communication Sciences and Disorders or C.I.

Course Description
Development, assessment, and instruction of reading, writing, and spelling, with emphasis on phonemic awareness, decoding, text comprehension, spelling, and written expression.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Spring

SPA6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

SPA6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders
SPA6942 - Foundations of Clinical Practice: Level III

Course Title
Foundations of Clinical Practice: Level III

Credits Hours
1

Lab/Studio/Field Work Hours
0

Prerequisites
- SPA 6503, SPA 6503L or C.I.

Corequisites
- SPA 6942L.

Course Description
Seminar preparing graduate clinicians for practicum with adults who have acquired disorders: clinical decision-making, generalization, transfer, maintenance, service delivery models, ethics, public policy and reimbursement.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Every Semester

SPA6942L - Found Clinic Practice-III APP

Course Title
Found Clinic Practice-III APP

Credits Hours
1

Lab/Studio/Field Work Hours
2

Prerequisites
- SPA 6503, SPA 6503 or C.I.

Corequisites
- SPA 6942.

Course Description
Supervised practicum including acquired disorders with the adult population. May be repeated for credit. Minimum of 20 clock hours required.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Current Fee Per Student
$20.10

2021-2022 Graduate Catalog
SPA6943C - Clinical Practice Level I
Course Title
Clinical Practice Level I
Credits Hours
3
Lab/Studio/Field Work Hours
4
Prerequisites
- SPA 6942, SPA 6942L.
Course Description
Clinical practicum for the demonstration of knowledge and skill application in the diagnosis, treatment and management of persons with complex communication disorders across the lifespan.

College
College of Health Professions and Sciences
Department
School of Communication Sciences and Disorders
Terms of Offering
Every Semester
Current Fee Per Student
$40.00

SPA6949 - Cooperative Education in Speech Pathology and Audiology
Course Title
Cooperative Education in Speech Pathology and Audiology
Credits Hours
0 - 99

College
College of Health Professions and Sciences
Department
School of Communication Sciences and Disorders
SPA7490 - Advanced Studies in Language Disorders

Course Title
Advanced Studies in Language Disorders

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing or C.I.

Course Description
Evaluation and management of language impairment and associated disorders in preschool and school-age children.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Occasional

SPA7494 - Doctoral Seminar 1: Spoken and Written Language Disorders Preschool and Early Elem

Course Title
Doctoral Seminar 1: Spoken and Written Language Disorders Preschool and Early Elem

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing or C.I.

Course Description
Research, theory and practice on spoken and written language disorders in preschool through early elementary school.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Fall
SPA7495 - Doctoral Seminar II: Spoken and Written Language Disorders

Course Title
Doctoral Seminar II: Spoken and Written Language Disorders

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Doctoral standing or C.I.

Course Description
Research, theory and practice on spoken and written language disorders in upper elementary, secondary and post-secondary students.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Spring

SPA7919 - Doctoral Research

Course Title
Doctoral Research

Credits Hours
1 - 99

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders
SPA7945 - Doctoral Seminar II: Spoken and Written Language Disorders

Course Title
Doctoral Seminar II: Spoken and Written Language Disorders

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites

- Doctoral standing or C.I.

Course Description
Supervised experience in observing, supervising and evaluating internship performance in a clinical or school practicum in communication sciences and disorders.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders

Terms of Offering
Occasional

SPA7947 - Internship in College Instruction

Course Title
Internship in College Instruction

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites

- Doctoral standing or C.I.

Course Description
Supervised experience in the design, delivery and evaluation of a college course in communication sciences and disorders.

College
College of Health Professions and Sciences

Department
School of Communication Sciences and Disorders
SPA7948 - Internship in Professional Development

**Course Title**
Internship in Professional Development

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission to PhD in Education Communication Sciences and Disorders Track.

**Course Description**
Supervised experience in the design, delivery and evaluation of professional development for educators in the area of communication sciences and disorders.

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

**Terms of Offering**
Fall

SPA7980 - Dissertation

**Course Title**
Dissertation

**Credits Hours**
1 - 99

**College**
College of Health Professions and Sciences

**Department**
School of Communication Sciences and Disorders

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**SPB - Sports Business**
SPB6406 - Sport Law

**Course Title**
Sport Law

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CBA master’s program of study foundation core and admission to the Sport Business Management program.

**Course Description**
Legal issues applicable to a sports context, developing familiarity with the legal terminology and broad understanding of key concepts in tort, contract, constitutional and common law. Employment, labor, antitrust, and agency law are also key components of this course.

**College**
College of Business Administration

**Department**
DeVos Sport Business Management

**Terms of Offering**
Fall

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SPB6506 - Moral and Ethical Issues in Sport

**Course Title**
Moral and Ethical Issues in Sport

**Credits Hours**
1.5

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CBA master’s program of study foundation core, and acceptance into the Sport Business Management program.

**Course Description**
Broad understanding of the moral and ethical issues in sport including a special focus on the responsibility of governing bodies and decision-makers in sport including faculty, coaches, athletic directors, presidents, league commissioners, the NCAA, and the media. Issues will also include equity for women and people of color, academic abuses of student-athletes at the high school and college level, illegal recruitment of student-athletes, use of performance enhancing drugs, agents, and gambling.

**College**
College of Business Administration

**Department**
DeVos Sport Business Management

**Terms of Offering**
Fall
SPB6606 - Diversity and Social Issues in Sport Business Management

**Course Title**
Diversity and Social Issues in Sport Business Management

**Credits Hours**
1.5

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CBA master's foundation core and admission to the Master of Sport Business Management.

**Course Description**
The impact of diversity and social issues in sport as business imperative to achieve social responsiveness and financial performance in professional, collegiate, and Olympic sport.

**College**
College of Business Administration

**Department**
DeVos Sport Business Management

**Terms of Offering**
Occasional

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SPB6706 - Sport Analytics

**Course Title**
Sport Analytics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Completion of foundation core modules and admission to Master of Sport Business Management program. Analysis and application of statistics, operations research, and economic theory to current business challenges and opportunities within the sport business industry.

**College**
College of Business Administration

**Department**
DeVos Sport Business Management

**Terms of Offering**
Summer
SPB6715C - Professional Selling in Sport

Course Title

Professional Selling in Sport

Credits Hours

1.5

Lab/Studio/Field Work Hours

1

Prerequisites

- CBA master's program of study foundation core and admission to the Sport Business Management program.

Course Description

This course offers a comprehensive understanding of the sales process in the sport area. An overview of sales theory and its applications in sports are examined.

College

College of Business Administration

Department

DeVos Sport Business Management

Terms of Offering

Summer

SPB6716C - Strategic Sport Marketing

Course Title

Strategic Sport Marketing

Credits Hours

3

Lab/Studio/Field Work Hours

1

Prerequisites

- CBA Masters Program of Study Foundation Core, and admission to the Sport Business Management program.

Course Description

This course offers a comprehensive understanding of the marketing of sport and marketing through sport. Theoretical and practical applications of sport marketing are examined.

College

College of Business Administration

Department

DeVos Sport Business Management

Terms of Offering

Occasional
SPB6725 - Leadership in Sport

Course Title
Leadership in Sport

Credits Hours
1.5

Lab/Studio/Field Work Hours
0

Prerequisites
- CBA master’s program of study foundation core, and admission to the Sport Business Management program.

Course Description
Theory, research, and practice of leadership in sports organizations. Special attention is given to contemporary leadership issues with leaders of sports industry leading many of the discussions. Examines the multiple roles that leaders can help sports organizations play in serving the community, including both traditional and creative philanthropy and case studies of model community service programs of sports teams, leagues, and college athletics departments. Lab Required.

College
College of Business Administration

Department
DeVos Sport Business Management

Terms of Offering
Spring

SPB6735 - The Global Environment of Sport

Course Title
The Global Environment of Sport

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CBA master’s program of study foundation core, and acceptance into the Sport Business Management program.

Course Description
With the continuing development of sport as a global enterprise comes the need to understand the global environment. The focus of this course is on the international business environment and how sport may best operate within that environment.

College
College of Business Administration

Department
DeVos Sport Business Management

Terms of Offering
Occasional
SPB6806 - Business of Sport Media

Course Title
Business of Sport Media

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- CBA master’s program of study foundation core, and acceptance into the Sport Business Management program.

Course Description
History of how media has evolved from radio, network television and magazines into the multi-dimensional world of regional and national cable, the internet, the networks, huge rights fees and other new elements. The way sports media provides so much of the revenue for sports as an entertainment industry has made it the anchor for the sports industry.

College
College of Business Administration

Department
DeVos Sport Business Management

Terms of Offering
Odd Spring

SPC - Speech Communication

SPC5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Nicholson School of Communication and Media

SPC5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Nicholson School of Communication and Media
SPC6340 - Teaching Communication

Course Title
Teaching Communication

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Develop best practices for teaching public speaking, interpersonal, persuasion, small group, organizational, mass, and intercultural communication concepts and skills.

College
College of Sciences

Department
Nicholson School of Communication and Media

Terms of Offering
Occasional

SPC6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Nicholson School of Communication and Media

SPC6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Nicholson School of Communication and Media
SPC7685 - Rhetorical Criticism of Strategic Communication

**Course Title**
Rhetorical Criticism of Strategic Communication

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Strategic Communication Ph.D. program or C.I.

**Course Description**
Process of rhetorical criticism of strategic communication, employing theory and practice to understand critical approaches to health and risk/crisis communication messages.

**College**
College of Sciences

**Department**
Nicholson School of Communication and Media

**Terms of Offering**
Fall

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SPM - Sports Management

SPM5155 - Introduction to Sports Administration

**Course Title**
Introduction to Sports Administration

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to Kinesiology MS or C.I.

**Course Description**
This course will provide an overview of the sports industry. Fundamental leadership administration and research theories as well as information on current issues are emphasized.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy- Kinesiology
SPM5308 - Marketing and Promoting Sports and Fitness Programs

Course Title
Marketing and Promoting Sports and Fitness Programs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Kinesiology MS or C.I.

Course Description
Introduces students to all aspects of sports marketing including planning, organizing, marketing, evaluating, and conducting special and sport events.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Occasional

SPM6106 - Planning and Operating Facilities for Sports and Fitness Programs

Course Title
Planning and Operating Facilities for Sports and Fitness Programs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- C.I.

Course Description
This course will provide students with an understanding of the factors involved in planning, designing, equipping, and managing of sport facilities and event logistics.

College
College of Health Professions and Sciences

Department
School of Kinesiology and Physical Therapy– Kinesiology

Terms of Offering
Occasional
SPM6158 - Leadership and Management in Sports and Fitness Programs

**Course Title**
Leadership and Management in Sports and Fitness Programs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
C.I. Examines leadership, management fundamentals, professional knowledge, sports personnel and evaluation systems, leadership ethics, and communication skills required of leaders in the sports industry.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Occasional

SPM6726 - Legal Issues in Sports and Fitness Programs

**Course Title**
Legal Issues in Sports and Fitness Programs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- C.I.

**Course Description**
This course examines major legal issues in sports leadership. Emphasis is on providing legally sound programs that reduce the risk of litigation.

**College**
College of Health Professions and Sciences

**Department**
School of Kinesiology and Physical Therapy - Kinesiology

**Terms of Offering**
Occasional

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**SPN - Spanish Language**
SPN5502 - Hispanic Culture of the United States

Course Title
Hispanic Culture of the United States

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
An analysis of the Hispanic culture of the United States, past and present.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional

SPN5505 - Spanish Peninsular Culture and Civilization

Course Title
Spanish Peninsular Culture and Civilization

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
An analysis of the salient characteristics of Spanish culture and civilization.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional
SPN5506 - Spanish American Culture and Civilization

**Course Title**
Spanish American Culture and Civilization

**Credits Hours**
3

**Prerequisites**
- Graduate status or senior standing or C.I.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Occasional

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SPN5705 - Bilingualism in the US

**Course Title**
Bilingualism in the US

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status or senior standing or C.I.

**Course Description**
Explores issues of Spanish and English bilingualism in the US to understand sociolinguistic and sociopolitical issues in developing the Hispanic/Latinx experience.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Occasional
SPN5825 - Spanish Dialectology

Course Title
Spanish Dialectology

Credits Hours
3

Prerequisites
- Graduate status or senior standing or C.I.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional

SPN5845 - History of the Spanish Language

Course Title
History of the Spanish Language

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
An overview of linguistic characteristics of Latin and its evolution into Spanish with historical development of phonetic, morphological, and syntactic properties.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional
SPN5848 - Romance Linguistics

Course Title
Romance Linguistics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Evolution of Classical Latin into other modern Romance languages from the perspective of (1) phonology, (2) morphology, (3) syntax and (4) lexis.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional

SPN5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

SPN5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures
**SPN6805 - Spanish Morphosyntax**

**Course Title**
Spanish Morphosyntax

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status or senior standing or C.I.

**Course Description**
Introduction to generative grammar, concentrating on X’ theory, phrase structure, theta-roles, binding theory, A’-movement, clitics and functional projections, applied to Spanish morphology and syntax.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Odd Fall

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**SPN6908 - Independent Study**

**Course Title**
Independent Study

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

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**SPN6909 - Research Report**

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures
SPN6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

SPN6940 - Teaching Methods for the Spanish Classroom

Course Title
Teaching Methods for the Spanish Classroom

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Practical training for educators and future educators who teach Spanish, including strategies, methodologies, and design approaches to promote a culturally diverse teaching and learning environment.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional

SPS - School Psychology

2021-2022 Graduate Catalog
SPS5605 - Building and Improving Relationship and Emotional Intelligence

**Course Title**
Building and Improving Relationship and Emotional Intelligence

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Students will learn to develop and improve relational and emotional intelligence and demonstrate an understanding of social emotional learning and how it enhances psychosocial wellbeing.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Odd Spring
Odd Summer

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SPS5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

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SPS5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology
SPS6125 - Preschool Psychoeducational Assessment

Course Title
Preschool Psychoeducational Assessment

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and C.I.

Course Description
Analysis of test theory and practice in administration, scoring, and interpretation of instruments assessing cognitive, visual-motor ability and adaptive behavior with preschool children.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring

Current Fee Per Student
$25.00

SPS6175 - Cultural Diversity and Nonbiased Assessment

Course Title
Cultural Diversity and Nonbiased Assessment

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
An investigation of some of the major multicultural issues with emphasis on administration, scoring, and interpretation of instruments related to this population.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Occasional
SPS6191 - Individual Psychoeducational Diagnosis I

Course Title
Individual Psychoeducational Diagnosis I

Credits Hours
4

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and C.I.

Corequisites
- SPS 6946L.

Course Description
Measurement of students' achievement and cognitive functioning. Administration, scoring, and interpretation of contemporary iterations of achievement and processing measures used in school psychology.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring

Current Fee Per Student
$20.00
SPS6192 - Individual Psychoeducational Diagnosis II

**Course Title**
Individual Psychoeducational Diagnosis II

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate admission and C.I.

**Corequisites**
- SPS 6946L.

**Course Description**
Measurement of students' intellectual and cognitive functioning. Administration, scoring, and interpretation of contemporary iterations of IQ measures used in school psychology.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Fall

**Current Fee Per Student**
$70.00

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SPS6194 - Assessment of Special Needs

**Course Title**
Assessment of Special Needs

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- SPS 6191, SPS 6192.

**Course Description**
Measurement of social, behavioral, and emotional functioning in children and adolescents.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Occasional

**Current Fee Per Student**
$25.00
SPS6206 - Psychoeducational Interventions  
**Course Title**  
Psychoeducational Interventions  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Graduate admission and C.I.  

**Course Description**  
This course will enable school psychology students to link psychoeducational assessment results to systematic, evidence-based psychoeducational interventions to improve student functioning.  

**College**  
College of Community Innovation and Education  

**Department**  
Department of Counselor Education & School Psychology  

**Terms of Offering**  
Spring  

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SPS6225 - Behavioral and Observational Analysis of Classroom Interactions in Schools  
**Course Title**  
Behavioral and Observational Analysis of Classroom Interactions in Schools  

**Credits Hours**  
3  

**Lab/Studio/Field Work Hours**  
0  

**Prerequisites**  
- Graduate admission.  

**Course Description**  
An intensive review of the principles and procedures of applied behavioral and observational analysis and assessment as they relate to changing behavior in schools.  

**College**  
College of Community Innovation and Education  

**Department**  
Department of Counselor Education & School Psychology  

**Terms of Offering**  
Summer
SPS6402 - Applied Prevention and Intervention in Schools I

**Course Title**
Applied Prevention and Intervention in Schools I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- C.I.

**Course Description**
Students will understand and apply behavioral prevention and intervention strategies in school and school-related settings.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Fall

SPS6403 - Applied Prevention and Intervention in Schools II

**Course Title**
Applied Prevention and Intervention in Schools II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing and C.I. Students will understand and apply academic prevention and intervention strategies in school and school-related settings.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Spring
Fall
SPS6601 - Introduction to Psychological Services in Schools

**Course Title**
Introduction to Psychological Services in Schools

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Graduate admission and C.I.

**Course Description**
A course presenting an overview of the philosophy, organization, programs, and operation of school psychological services.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Fall

SPS6606 - Consultation in School Psychology

**Course Title**
Consultation in School Psychology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing and C.I.

**Course Description**
School Psychology theories and models of school consultation and clinical practice in the consultative role.

**College**
College of Community Innovation and Education

**Department**
Department of Counselor Education & School Psychology

**Terms of Offering**
Summer
SPS6608 - Seminar in School Psychology

Course Title
Seminar in School Psychology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- C.I.

Course Description
Diagnostic, instructional, and prescriptive intervention techniques.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring

SPS6700 - Advanced Psychoeducation and Data-Based Decision Making

Course Title
Advanced Psychoeducation and Data-Based Decision Making

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Graduate standing and C.I.

Course Description
Principles of advanced psychoeducation for teaching, response to intervention, and data-based decision making in schools.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Fall
SPS6801 - Developmental Bases of Diverse Behaviors

Course Title
Developmental Bases of Diverse Behaviors

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate admission and C.I.

Course Description
The major social and educational policy concerns posed by developmental and cultural diversity in our society, with implications for teaching, learning and intervention.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Spring

SPS6815 - Legal and Ethical Issues in Professional School Counseling

Course Title
Legal and Ethical Issues in Professional School Counseling

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MHS 5005 and MHS 6400.

Course Description
Ethical and legal standards, their evolution, and application specific to professional school counseling will be presented in the form of case studies and ethical dilemmas.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Summer
SPS6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

SPS6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

SPS6931 - Ethical and Legal Issues in School Psychological Services

Course Title
Ethical and Legal Issues in School Psychological Services

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and C.I.

Course Description
Introduction to ethical codes, professional standards, ethical-legal decision-making models and case studies impacting the delivery of school psychological services.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Summer
SPS6946L - Practicum in School Psychology

Course Title
Practicum in School Psychology

Credits Hours
3

Lab/Studio/Field Work Hours
3

Prerequisites
- Graduate admission and C.I.

Course Description
Provides each student with an orientation to public schools and experiences which broadly sample the spectrum of psychoeducational assessment and interventions for practicing school psychologists.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

SPS6948 - School Psychology Internship

Course Title
School Psychology Internship

Credits Hours
6

Lab/Studio/Field Work Hours
6

Prerequisites
- Graduate standing and C.I.

Course Description
Supervised placement in school setting. Graded S/U. May be used in the degree program a maximum of 6 times.

College
College of Community Innovation and Education

Department
Department of Counselor Education & School Psychology

Terms of Offering
Every Semester

SPW - Spanish Literature (Writings)
SPW5741 - Contemporary Spanish American Southern Cone Literature

Course Title
Contemporary Spanish American Southern Cone Literature

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Enrolled in Spanish M.A. Program or C.I.

Course Description
Regional as well as international literary cultures and disciplines in southern cone literature.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

SPW5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

SPW5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures
SPW6216 - Spanish Golden Age Prose and Poetry

Course Title
Spanish Golden Age Prose and Poetry

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• Admission into Spanish M.A. program.

Course Description
Outstanding authors of the Spanish Renaissance and Spanish Baroque periods.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional

SPW6217 - Spanish American Prose I

Course Title
Spanish American Prose I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• Graduate standing or C.I.

Course Description
A study of the principal characteristics of Spanish American prose from Colonial times to post-independence.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional
SPW6218 - Spanish American Prose II

**Course Title**
Spanish American Prose II

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
A study of the principal characteristics of Spanish American prose from modernism to the present.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Occasional

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SPW6269 - Nineteenth Century Spanish Novel

**Course Title**
Nineteenth Century Spanish Novel

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
A study of the major writers and literary movements of the 19th century with emphasis on the novels of Valera, Perez Galdos, Clarin and Pardo Bazan.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Occasional
SPW6306 - Spanish American Drama

Course Title
Spanish American Drama

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into Spanish M.A. program.

Course Description
Critically recognized Spanish American Theater texts and pre-Hispanic theatrical works.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional

SPW6315 - Early Modern Spanish Theatre

Course Title
Early Modern Spanish Theatre

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Intensive reading and analysis of selected theatrical works of Early Modern Spain.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional
SPW6356 - Spanish American Poetry

**Course Title**
Spanish American Poetry

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
A study of the different movements and their contribution to Spanish American poetry.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Occasional

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SPW6405 - Medieval Spanish Literature

**Course Title**
Medieval Spanish Literature

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
An intensive study of the major genres of the period. Emphasis on selected works by major writers.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Occasional
SPW6485 - Contemporary Peninsular Literature
Course Title
Contemporary Peninsular Literature

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
A study of the major writers and literary movements from the Generation of 1927 to the present.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional

SPW6725 - The Generation of 1898
Course Title
The Generation of 1898

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
An analysis of the major works of writers of the Generation of 1898 such as Ganivet, Unamuno, Baroja, Azorin, and Machado.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional
SPW6775 - Spanish Caribbean Prose

Course Title
Spanish Caribbean Prose

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- SPW 6919.

Course Description
Spanish Caribbean writers from Colonial times to the present.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Fall

SPW6825 - Colloquium in Don Quixote & Cervantes in the 21st Century

Course Title
Colloquium in Don Quixote & Cervantes in the 21st Century

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
Intensive reading and analysis of the first modern novel Don Quixote and a selection of works by the author Miguel de Cervantes.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional
SPW6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

SPW6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

SPW6919 - Advanced Spanish Graduate Research

Course Title
Advanced Spanish Graduate Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate student in Spanish MA program.

Course Description
Introduce historical and literary criticism at the graduate level. Teach methods for independent study and provide students with tools needed for research in Spanish linguistics, literary criticism and culture.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional
**SPW6971 - Thesis**

**Course Title**
Thesis

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

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**SSE - Social Studies Education**

**SSE5391 - Global Education: Theory and Practice**

**Course Title**
Global Education: Theory and Practice

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Examines the theoretical underpinnings of teaching about the world along with a variety of theoretically grounded teaching strategies for engaging students in global education.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring
SSE5776 - Democracy and Education

Course Title
Democracy and Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- Graduate standing or C.I.

Course Description
Explores the intersection of theory and practice with regard to promoting democratic life in schools. Will examine competing theories of democracy and education, investigate problem areas in schools related to democracy, and consider examples of practice.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall

SSE5790 - Inquiry and Instructional Analysis in Social Science Education

Course Title
Inquiry and Instructional Analysis in Social Science Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- EDG 6415 or admission to Teacher Leadership MEd program or Initial Teacher Professional Preparation certificate.

Course Description
Study of instructional programs in social science education and related scholarship; development of an inquiry about the intersection of theory and practice in social science teaching.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
SSE5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

SSE5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Community Innovation and Education
Department
School of Teacher Education

SSE6115 - Methods in Elementary School Social Science
Course Title
Methods in Elementary School Social Science
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate standing or C.I.
Course Description
Study of instructional programs in social sciences; objectives; materials; techniques; current research; and their application in elementary school setting.
College
College of Community Innovation and Education
Department
School of Teacher Education
Terms of Offering
Spring
Fall
SSE6348 - Foundations and Fundamentals of Teaching History in the K-12 Classroom

**Course Title**
Foundations and Fundamentals of Teaching History in the K-12 Classroom

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
This course examines empirical research and pedagogical approaches related to the teaching of history in the K-12 classroom environment.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Odd Fall

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SSE6387 - Teaching with Film

**Course Title**
Teaching with Film

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Selected strategies, trends, methods, materials, and legal issues for effectively incorporating film in the K-12 classroom. Selected topics include media literacy, film research, and making movies appropriate to educational settings.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Spring
SSE6388 - Digital History in the K-12 Classroom

Course Title
Digital History in the K-12 Classroom

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
This course looks at the concept of digital history and how this pedagogical approach can and should be applied in the K-12 social studies classroom environment.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Fall

SSE6396 - Teaching with Primary Sources in the History Classroom

Course Title
Teaching with Primary Sources in the History Classroom

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
This course focuses on the creation, teaching, and evaluation of history-specific, content-informed and effective instructional practices that integrate primary sources.

College
College of Community Innovation and Education

Department
School of Teacher Education
SSE6636 - Contemporary Social Science Education

Course Title
Contemporary Social Science Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Basic Teacher Certificate of C.I.

Course Description
A survey of recent developments and contemporary programs in all areas of the social sciences.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Occasional

SSE6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education

SSE6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Community Innovation and Education

Department
School of Teacher Education
SSE6938 - Special Topics
Course Title
Special Topics
Credits Hours
1 - 99
College
College of Community Innovation and Education
Department
School of Teacher Education

SSE7700 - Critical Issues in Social Studies Teacher Education
Course Title
Critical Issues in Social Studies Teacher Education
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites

- Doctoral standing.

Course Description
An examination of the relevant literature surrounding the research and practice of social studies teacher education. The course examines the major themes, ideas, perspectives, and programs.

College
College of Community Innovation and Education
Department
School of Teacher Education
Terms of Offering
Even Fall
SSE7740 - History of Social Studies Education

Course Title
History of Social Studies Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing.

Course Description
Major themes, ideas, and personalities in the historical development of curriculum and instruction in social studies in the United States since 1880.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Odd Fall

SSE7796 - Research in Social Science Education Seminar

Course Title
Research in Social Science Education Seminar

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing.

Course Description
Analysis and evaluation of scholarly research in social studies education.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Odd Spring
SSE7797 - Content and Program Analysis in Social Science Education

**Course Title**
Content and Program Analysis in Social Science Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Doctoral standing.

**Course Description**
Analysis of social science instructional programs including development of content, materials, processes, and assessment procedures in light of current research and practice.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Even Fall

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SSE7947 - Internship in Social Science Education

**Course Title**
Internship in Social Science Education

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Doctoral standing.

**Course Description**
Student teaching in a classroom under supervision of a certified classroom teacher. May be used in the degree program a maximum of 3 times.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Every Semester

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STA - Statistics

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2021-2022 Graduate Catalog
STA5104 - Advanced Computer Processing of Statistical Data

Course Title
Advanced Computer Processing of Statistical Data

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 4163 and knowledge of a programming language, graduate status or senior standing, or C.I.

Course Description
Use of SAS and other statistical software packages; data manipulation; graphical data presentation; data analysis; creating analytical reports.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Fall

STA5176 - Introduction to Biostatistics

Course Title
Introduction to Biostatistics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 4163 or STA 4173, graduate status or senior standing, or C.I.

Course Description
Fixed-effects model, random-effects model, repeated measures design, logistic regression, survival analysis, Kaplan-Meier estimates, proportional hazards model.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional
STA5205 - Experimental Design

Course Title
Experimental Design

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 4164, STA 5206 or ESI 5219, and graduate status or senior standing, or C.I.

Course Description
Construction and analysis of designs for experimental investigations. Blocking, randomization, replication; Incomplete block designs; factorial and fractional designs; design resolution.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Spring

STA5206 - Statistical Analysis

Course Title
Statistical Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 2023; not open to students who have completed STA 4164. Graduate status or senior standing or C.I.

Course Description
Data analysis; statistical models; estimation; tests or hypotheses; analysis of variance, covariance, and multiple comparisons; regression and nonparametric methods.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Fall
STA5505 - Categorical Data Methods
Course Title
Categorical Data Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 4163 or STA 5206, and graduate status or senior standing or C.I.

Course Description
Considers discrete probability distributions, contingency tables, measures of association, and advanced methods, including loglinear modeling, logistic regression, McNemar's Test, Mantel-Haenszel test.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional

STA5703 - Data Mining Methodology I
Course Title
Data Mining Methodology I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 5104 and STA 5206, graduate status or senior standing, or C.I.

Course Description
Supervised data mining tools including boosting trees, SV machine, regression, and neural network will be covered. The Enterprise Miner (R or Python) will be used.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Fall
STA5735 - Fundamental Data Analytical Methodology with Business Applications

**Course Title**
Fundamental Data Analytical Methodology with Business Applications

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- STA 5104 An Analytical Programming Language PYTHON or R, or C.I.

**Course Description**
Introduce methods to prepare structured and unstructured data that will then be used with modeling techniques, for the purpose of uncovering hidden knowledge and information in the data.

**College**
College of Sciences

**Department**
Department of Statistics

**Terms of Offering**
Fall

STA5736 - Advanced Data Analytical Methodology with Business Applications

**Course Title**
Advanced Data Analytical Methodology with Business Applications

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing and A Programming Language such as PYTHON and R, or C.I.

**Course Description**
Learn to apply advanced analytical techniques to build models of real-world data collected from a variety of sources. These models are used to uncover data patterns and behaviors that can be used to support decision-making and to predict new business opportunities.

**College**
College of Sciences

**Department**
Department of Statistics

**Terms of Offering**
Spring
STA5738 - Data and Analytical Methodology for Metropolitan and Regional Areas

Course Title
Data and Analytical Methodology for Metropolitan and Regional Areas

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- COP 4020, or STA 4102, or C.I.

Course Description
Examining tools and methodologies for analyzing urban data collections. This information can assist in the emergence of smart cities. Practice and theory will be covered.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Fall

STA5825 - Stochastic Processes and Applied Probability Theory

Course Title
Stochastic Processes and Applied Probability Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 4321, and graduate status or senior standing or C.I.

Course Description
Conditional probability and conditional expectations, sequences of random variables, branching processes, random walks, Markov chains, recurrent events, renewal theory, queueing theory, and simple stochastic processes.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Spring
STA5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Statistics

STA5937 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Statistics

STA6106 - Statistical Computing I
Course Title
Statistical Computing I
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- STA 6327, or CI.
Course Description
Introduction to programming with R and Python, loops, functions, control flow in R and Python, Numpy, Scipy, Matplotlib, Pandas, Monte Carlo integration, random variable generation, Newton-Raphson method, IRWLS, steepest descent, golden section search
College
College of Sciences
Department
Department of Statistics
Terms of Offering
Fall
STA6107 - Statistical Computing II

Course Title
Statistical Computing II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

STA 6106 (or Knowledge of programming with R and Python) and STA 6329 (or knowledge of Matrix Algebra).

Course Description
Monte Carlo for inferential statistics, bootstrap, Jackknife, cross-validation, Karush-Kuhn-Tucker (KKT) optimality conditions, Strong duality, SVM, least squares SVM, MCMC, Metropolis Hastings algorithm, Gibbs sampling, Ridge regression (Tikhonov regularization), lasso, EM algorithm, kernel methods, QR decomposition, updating methods.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Spring

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STA6136 - Probability and Statistics for Business Analytics

Course Title
Probability and Statistics for Business Analytics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Admission to the MSM Business Analytics program.

Course Description
Introduction to the main tools of probability and statistics used in business analytics.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional
STA6223 - Conventional Survey Methods

**Course Title**
Conventional Survey Methods

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- STA 5206 and graduate student standing, or C.I.

**Course Description**
Design of conventional finite population sample surveys; Stratified, systematic, and multistage cluster sampling designs, ratio and regression estimators, non-response bias.

**College**
College of Sciences

**Department**
Department of Statistics

**Terms of Offering**
Occasional

STA6224 - Bayesian Survey Methods

**Course Title**
Bayesian Survey Methods

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- STA 5206, STA 6222, or C.I.

**Course Description**
Bayesian methods for survey design and analysis of survey data.

**College**
College of Sciences

**Department**
Department of Statistics

**Terms of Offering**
Occasional
STA6226 - Sampling Theory and Applications

Course Title
Sampling Theory and Applications

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 4321.

Course Description
Different techniques of sampling, sampling for proportions, choosing sample size, ratio estimates, effects of sampling and non-sampling errors.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional

STA6236 - Regression Analysis

Course Title
Regression Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAS 3105 and STA 4164.

Course Description
General linear model, model aptness and remedial measures, regression through the origin, independent and dependent indicator variables, multicollinearity, outliers, biased regression.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Fall
STA6237 - Nonlinear Regression

Course Title
Nonlinear Regression

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 6236 (or knowledge of linear regression).

Course Description

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional

STA6238 - Logistic Regression

Course Title
Logistic Regression

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 6236.

Course Description
Studies of logistic regression models: estimation, interpretation, model building strategies and assessments, and polytomous regression, SAS programming in the application of logistic regression modeling.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Spring
STA6246 - Linear Models

Course Title
Linear Models

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 6329, STA 4164, and STA 4322.

Course Description
Theoretical development of full rank linear statistical models, least squares and maximum likelihood estimation, interval estimation, hypothesis testing, and introduction to less than full rank models.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Spring

STA6326 - Theoretical Statistics I

Course Title
Theoretical Statistics I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAC 2313.

Course Description
Distribution of random variables, conditional probability and independence, some special distributions, distributions of functions of random variables, limiting distributions.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Fall
STA6327 - Theoretical Statistics II

Course Title
Theoretical Statistics II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 6326.

Course Description
Point estimation, sufficient statistics, completeness, exponential family, maximum likelihood estimators, statistical hypotheses, best tests, likelihood ratio tests, noncentral distributions.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Spring

STA6329 - Statistical Applications of Matrix Algebra

Course Title
Statistical Applications of Matrix Algebra

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MAC 2313 and STA 4164 or STA 5206.

Course Description
Basic theory of determinants, inverses, generalized inverses, eigenvalues and eigenvectors, partitioned matrices. Diagonalization and decomposition theorems, least squares and statistical applications.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Fall
STA6346 - Advanced Statistical Inference I

Course Title
Advanced Statistical Inference I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 6327.

Course Description
Decision rules, risk functions, utility theory, the loss function, prior information and subjective probability, Bayesian analysis.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional

STA6347 - Advanced Statistical Inference II

Course Title
Advanced Statistical Inference II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 6346, or C.I..

Course Description
Minimax analysis, invariance, admissibility, maximal invariants, sequential analysis.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional
STA6507 - Nonparametric Statistics

Course Title
Nonparametric Statistics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 4321.

Course Description
Theory and methods for one and two sample problems; one and two way layouts; independence problems; regression problems.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional

STA6662 - Statistical Methods for Industrial Practice

Course Title
Statistical Methods for Industrial Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 4164 or C.I.

Course Description
Variance components, PCRs, autocorrelation structures, charting, EVOP, design strategies, calibration, standards, and associated awards.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional
STA6704 - Data Mining Methodology II

Course Title
Data Mining Methodology II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 5703.

Course Description
Unsupervised learning methods such as cluster analysis, association analysis and newly developed tools will be covered. The Enterprise Miner (R or Python) will be used.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Spring

STA6705 - Data Mining Methodology III

Course Title
Data Mining Methodology III

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and STA 5703, or C.I.

Course Description
Current topics in data mining.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional
STA6707 - Multivariate Statistical Methods

Course Title
Multivariate Statistical Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
MAS 3105, STA 4163, and STA 4322.

Course Description

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional

STA6709 - Spatial Statistics

Course Title
Spatial Statistics

Credits Hours
3

Prerequisites
STA 6707 and STA 5825

Course Description
Statistical models and methods for analyzing data that are collected at different spatial locations and/or at different times, spatial or spatio-temporal data.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Even Spring
STA6714 - Data Preparation

Course Title
Data Preparation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 5104.

Course Description
Variable selections, missing value imputation, text, time series, and new data preparation method will be covered. The Enterprise Miner (R or Python) will be used.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Spring

STA6857 - Applied Time Series Analysis

Course Title
Applied Time Series Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 4322, MAS 3105.

Course Description

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Occasional
STA6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Statistics

STA6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Statistics

STA6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Statistics

STA6949 - Cooperative Education in Statistics
Course Title
Cooperative Education in Statistics
Credits Hours
0 - 99
College
College of Sciences
Department
Department of Statistics
STA7239 - Dimension Reduction in Regression

**Course Title**
Dimension Reduction in Regression

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- STA 6236 or STA 5206.

**Course Description**
Reducing the number of random variables/features in regression, feature selection and extraction, kernel principal component analysis, locally linear embedding.

**College**
College of Sciences

**Department**
Department of Statistics

**Terms of Offering**
Occasional

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STA7348 - Bayesian Modeling and Computation

**Course Title**
Bayesian Modeling and Computation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- STA 5703 and STA 6704.

**Course Description**
Bayesian model, prior specification, basics of decision theory, Markov chain Monte Carlo, Bayes factor, empirical Bayes, Bayesian linear regression and generalized linear models, hierarchical models.

**College**
College of Sciences

**Department**
Department of Statistics

**Terms of Offering**
Occasional
STA7719 - Survival Analysis

Course Title
Survival Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 6326 and STA 6327, or C.I.

Course Description
Censoring, hazard and survival functions, Kaplan-Meier estimator, lifetime table, partial likelihood, Cox proportional hazards model, accelerated failure time model.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Even Spring

STA7722 - Statistical Learning Theory

Course Title
Statistical Learning Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 6329, STA 6327, and STA 6106.

Course Description
Discuss when statistical learning algorithms work and why by focusing on developing a theoretical understanding of the statistical properties of learning algorithms.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Even Fall

2021-2022 Graduate Catalog
STA7734 - Statistical Asymptotic Theory in Big Data

Course Title
Statistical Asymptotic Theory in Big Data

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- STA 6327 and STA 6704.

Course Description
Asymptotic theory of statistics, with an array of applications to motivate as well as demonstrate its utility in addressing problems in Big Data research.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Even Fall

STA7920 - Statistical Colloquium

Course Title
Statistical Colloquium

Credits Hours
0

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to the PhD program in the Department of Statistics and Data Science, or C.I.

Course Description
Introduces students to new variety of topics in statistics and big data analytics.

College
College of Sciences

Department
Department of Statistics

Terms of Offering
Spring
Fall
### STA7935 - Current Topics in Big Data Analytics

**Course Title**
Current Topics in Big Data Analytics

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
STA 5703 and STA 6704. Discussion of new and current techniques developed to solve big data problems that are not covered in current big data analytic courses.

**College**
College of Sciences

**Department**
Department of Statistics

**Terms of Offering**
Occasional

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### SYA - Sociology Analysis

**SYA5625 - ProSeminar**

**Course Title**
ProSeminar

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Survey of conceptual issues, methodological concerns, and findings in substantive sociological areas that currently dominate scholarly inquiry, including such topics as crime, deviance, community, alcoholism, education.

**College**
College of Sciences

**Department**
Department of Sociology
SYA5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Sociology

SYA5941 - Participatory Geographic Information Systems in Belize

Course Title
Participatory Geographic Information Systems in Belize

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
The conceptual frameworks, methodologies, and applications of Participatory Geographic Information Systems and related geospatial technologies for use in the field.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Summer
SYA6126 - Social Theory

Course Title
Social Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Regular graduate standing or C.I.

Course Description
The study of selected sociological theories in terms of relevance, usefulness, and adequacy for applied sociology.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Spring

SYA6128 - Theoretical Criminology

Course Title
Theoretical Criminology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
The study of selected sociological theories to develop student understanding of each theory and its application to the analysis of crime and criminal events.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Even Spring
SYA6305 - Social Research
Course Title
Social Research
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Regular graduate standing or C.I.
Course Description
Research methodology including problem conceptualization, sampling designs, research proposals, data collection, and evaluation techniques for applied settings.
College
College of Sciences
Department
Department of Sociology
Terms of Offering
Fall

SYA6315 - Qualitative Research Methods
Course Title
Qualitative Research Methods
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate Standing.
Course Description
Examination of qualitative research methods, how and when they are employed, and processes of analyzing field observation, oral histories, and in depth interviews.
College
College of Sciences
Department
Department of Sociology
Terms of Offering
Occasional
SYA6356 - Geographic Information Systems in Society

**Course Title**
Geographic Information Systems in Society

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing or C.I. The art and science of GIS and related geospatial technologies across the social and environmental sciences.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Spring

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SYA6425 - Design and Conduct of Social Surveys

**Course Title**
Design and Conduct of Social Surveys

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Advanced social survey research methods, including sampling theory and applications, measurement, data collection modalities, questionnaire construction, and data reduction strategies.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Occasional
SYA6452 - GIS Applications

**Course Title**
GIS Applications

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
SYA 6455 or C.I. The concepts and implementations of the geographic information analysis and integrate GIS with real-world applications.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Spring

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SYA6455 - Research Analysis

**Course Title**
Research Analysis

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- SYA 6305, undergraduate statistics, regular graduate standing, or C.I.

**Course Description**
Data management, selection of statistics, data analysis, evaluation, data presentation, and computer skills.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Spring
SYA6458 - Advanced Topics in Geographic Information Systems in Society

Course Title
Advanced Topics in Geographic Information Systems in Society

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Focuses on advanced special topics in Geographic Information Systems related to the technology's use in and impact on society.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Odd Spring

SYA6657 - Program Design and Evaluation

Course Title
Program Design and Evaluation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
SYA 6305 and SYA 6455 or C.I.

Course Description
Techniques of system and policy assessment, evaluation, and design. Determination of consequences and implications of policies and practices in applied settings.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Spring
**SYA6660 - Seminar in Teaching Sociology**

**Course Title**
Seminar in Teaching Sociology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Pedagogical theories and Practices for sociologists.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Occasional

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**SYA6909 - Research Report**

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Sociology

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**SYA6918 - Directed Research**

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Sociology
**SYA6933 - Topics in Sociological Theory**

**Course Title**
Topics in Sociological Theory

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing or C.I. In-depth examination of a particular area of sociological theory, emphasizing major developments, current uses, implications for research, and overall impact on the field.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Occasional

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**SYA6938 - Special Topics**

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Sociology
SYA7019 - Advanced Sociological Theory

Course Title
Advanced Sociological Theory

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- SYA 6126 and doctoral standing or C.I.

Course Description
Research seminar in sociological theory.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Fall

SYA7309 - Advanced Sociological Research Methods

Course Title
Advanced Sociological Research Methods

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- SYA 6305 and doctoral standing or C.I.

Course Description
Applied research, incorporating aspects of project design, budgeting, grants and contracts, methodological techniques, report writing, and ethical issues.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Fall

2021-2022 Graduate Catalog
SYA7407 - Advanced Data Analysis

Course Title
Advanced Data Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- SYA 6305 and SYA 6455 and doctoral standing or C.I.

Course Description
Multivariate statistical techniques and the development of computer skills.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Spring

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SYA7457 - Topics in Data Analysis

Course Title
Topics in Data Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- SYA 7407 and doctoral standing or C.I.

Course Description
Application of multivariate statistical techniques.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional
SYA7658 - Social Policy and Research Analysis

Course Title
Social Policy and Research Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Doctoral standing or C.I.

Course Description
Sociological perspectives on creation, development, implementation, and consequences of social policy.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Fall

SYA7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Sociology

SYD - Sociology of Demography

SYD5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Sociology
**SYD5937 - Special Topics**

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Sociology

**SYD6363 - Social Inequalities and Reproductive Health**

Course Title
Social Inequalities and Reproductive Health

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Sociological investigation of inequalities in reproductive health. Focuses on how inequalities (race, class, gender, sexuality), institutions and ideologies shape reproductive options, experiences and outcomes.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional
SYD6417 - Contemporary Urban Sociology

Course Title
Contemporary Urban Sociology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Contemporary issues in urban sociology.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional

SYD6428 - Poverty, Homelessness and the Cities

Course Title
Poverty, Homelessness and the Cities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in sociology or related discipline or C.I.

Course Description
Poverty, homelessness and their impact on American cities in the 21st century.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional
SYD6538 - Topics in Social Inequalities

**Course Title**
Topics in Social Inequalities

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Examines cutting-edge research in an area of social inequalities, with an emphasis on how social inequalities are created and maintained in contemporary society. May be used in the degree program a maximum of 3 times.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Occasional

SYD6705 - Seminar in Race and Ethnicity

**Course Title**
Seminar in Race and Ethnicity

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in Sociology or C.I.

**Course Description**
A sociological examination of the experiences of racial and ethnic groups in the United States.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Occasional
**SYD6795 - Class, Race, and Gender in American Society**

**Course Title**
Class, Race, and Gender in American Society

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Applies a sociological perspective to analyze how individuals, groups and institutions are shaped by privilege and disadvantaged based on gender, race and class.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Odd Spring

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**SYD6809 - Seminar in Gender Issues**

**Course Title**
Seminar in Gender Issues

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing in Sociology or C.I.

**Course Description**
Using theoretical and empirical studies, this course will provide a sociological examination of gender issues that influence relationships between women and men.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Occasional
SYD6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Sociology

SYD6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Sociology

SYD6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Sociology

SYD7919 - Research

Course Title
Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Sociology

SYG - Sociology, General
SYG7980 - Doctoral Dissertation

**Course Title**
Doctoral Dissertation

**Credits Hours**
1 - 99

**Lab/Studio/Field Work Hours**
Jan-99

**Prerequisites**
- Candidacy status.

**Course Description**
Doctoral dissertation. May be repeated for credit.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Every Semester

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SYO - Sociology--Social Organizations

SYO5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Sociology

SYO5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Sociology
SYO6175 - Social Research in the Family

Course Title
Social Research in the Family

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
To offer an overview of current research in the family. The family will be viewed from the institutional level, individual social system, and individual level.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional

SYO6256 - Inequality and Education

Course Title
Inequality and Education

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Use sociological theories to explore the role of the educational system in reproducing inequality with regard to race, class, gender, language, health and disability.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional
SYO6404 - Food Insecurity and Health

**Course Title**
Food Insecurity and Health

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing, or C.I.

**Course Description**
Seminar examining food insecurity and its impact on health outcomes using a sociological theoretical framework.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Occasional

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SYO6405 - Sociology of Health and Illness

**Course Title**
Sociology of Health and Illness

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Sociological models of health and illness.

**College**
College of Sciences

**Department**
Department of Sociology

**Terms of Offering**
Occasional
SYO6406 - Medical Sociology

Course Title
Medical Sociology

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Theory and research in medical sociology; systematic overview of salient sociological issues in health and medicine.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional

SYO6409 - Social Inequalities in Health

Course Title
Social Inequalities in Health

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, or C.I.

Course Description
Sociological approach to understanding how social inequalities leads to inequalities in health outcomes.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional
SYO6515 - Issues in Social Disorganization

Course Title
Issues in Social Disorganization

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Sociological study and analysis of the manner in which American society is organized and the consequences of the way in which its cultural premises are arranged.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional

SYO6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Sociology

SYO6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Sociology
SYO6938 - Special Topics
Course Title: Special Topics
Credits Hours: 3
College: College of Sciences
Department: Department of Sociology

SYO7919 - Research
Course Title: Research
Credits Hours: 1 - 99
College: College of Sciences
Department: Department of Sociology

SYP - Sociology-Social Processes

SYP5005 - Sociological Social Psychology
Course Title: Sociological Social Psychology
Credits Hours: 3
Lab/Studio/Field Work Hours: 0
Prerequisites:
- Graduate standing or C.I.
Course Description:
An exploration of sociological social psychological theories and their application in understanding the effects of society and groups on the individual.
College: College of Sciences
Department: Department of Sociology
Terms of Offering:
Occasional
SYP5566 - Seminar on Domestic Violence: Theory, Research and Social Policy

Course Title
Seminar on Domestic Violence: Theory, Research and Social Policy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
A sociological examination and evaluation of theories, empirical research and social policy related to the study of domestic violence.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional

SYP5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Sociology

SYP5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Sciences

Department
Department of Sociology
SYP6515 - Deviant Behavior Issues

Course Title
Deviant Behavior Issues

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
An examination and evaluation of the forms of social deviance, and the organizations designed to respond to them.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional

SYP6517 - Topics in Crime and Deviance

Course Title
Topics in Crime and Deviance

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Graduate standing or C.I. Seminar involving an in-depth examination of current topics relating to crime and deviance.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional
SYP6518 - Guns, Crime and Violence

Course Title
Guns, Crime and Violence

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in sociology or related discipline or C.I.

Course Description
Role of firearms in America: Guns in history; civilian gun ownership; guns, crime and criminals; and guns and public policy.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional

SYP6522 - Sociological Perspectives on Victims

Course Title
Sociological Perspectives on Victims

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
An analytical examination of crime victims and victimology from a sociological perspective.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional
SYP6524 - Social Organization of Homicide

Course Title
Social Organization of Homicide

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
An in-depth analysis of the social and cultural context of homicide and of intervention strategies. The primary emphasis is on the contemporary U.S.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional

SYP6546 - Crime, Law, Inequality

Course Title
Crime, Law, Inequality

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing.

Course Description
The consequences of social stratification on criminality and treatment/protection by the legal system. This course examines literature concerning inequality and the sociology of law.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional
SYP6555 - Sociology of Alcohol and Drugs

Course Title
Sociology of Alcohol and Drugs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing in sociology or related fields or C.I.

Course Description
Themes and research literatures in the sociology of alcohol and drug use, misuse and abuse and the social policy response.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional

SYP6560 - Topics in Domestic Violence

Course Title
Topics in Domestic Violence

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Seminar involving an in-depth examination of current topics relating to domestic violence.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional
SYP6561 - Child Abuse in Society

Course Title
Child Abuse in Society

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
A sociological examination of literature and current research pertaining to child abuse and neglect.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional

SYP6563 - Reactions to Domestic Violence

Course Title
Reactions to Domestic Violence

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
The reactions by communities, victims, and professionals to domestic violence. Topics include examination of policies on domestic violence, and issues relating to race, class, and gender.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional
SYP6735 - Sociology of Health and Aging

Course Title
Sociology of Health and Aging

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
Graduate standing or C.I.

Course Description
Research-oriented seminar covering historical, present and future sociocultural perspectives of aging.

College
College of Sciences

Department
Department of Sociology

Terms of Offering
Occasional

SYP6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Sociology

SYP6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Sciences

Department
Department of Sociology
SYP6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Sciences
Department
Department of Sociology

SYP7919 - Research
Course Title
Research
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Sociology

SYP7939 - Special Topics
Course Title
Special Topics
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Sociology

SYP7980 - Dissertation
Course Title
Dissertation
Credits Hours
1 - 99
College
College of Sciences
Department
Department of Sociology

TAX - Taxation
TAX5015 - Advanced Tax Topics

Course Title
Advanced Tax Topics

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing, TAX 4001 with a "C" (2.0) or better.

Course Description
Advanced tax issues affecting business entities and their owners, with a primary focus on corporations and partnerships.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional

TAX5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

TAX5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting
TAX6065 - Tax Research

Course Title
Tax Research

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and completion of all business and accounting foundation core courses and a "C" (2.0) or better in TAX 5015.

Course Description
Legal and ethical guidelines governing tax practice.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Spring
Fall

TAX6317 - Taxation of Flow-thru Entities

Course Title
Taxation of Flow-thru Entities

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and completion of all business and accounting foundation core courses and a "C" (2.0) or better in TAX 5015.

Course Description
Federal taxation relating to operations, formation, distribution, retirements and liquidations of flow-thru entities such as partnerships, limited liability companies, and S corporations.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional
TAX6527 - Multi-jurisdictional Taxation

Course Title
Multi-jurisdictional Taxation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and TAX 4001.

Course Description
Study of tax issues involved when business enterprises operate in multiple taxing jurisdictions. Principles of both multi-state and international income taxation.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional

TAX6845 - Tax Planning and Consulting

Course Title
Tax Planning and Consulting

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing and completion of all business and accounting foundation core courses and a "C" (2.0) or better in TAX 5015.

Course Description
Individual and business tax planning.

College
College of Business Administration

Department
Kenneth G Dixon School of Accounting

Terms of Offering
Occasional
TAX6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Business Administration
Department
Kenneth G Dixon School of Accounting

TAX6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Kenneth G Dixon School of Accounting

TAX6938 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Business Administration
Department
Kenneth G Dixon School of Accounting

TAX6971 - Thesis
Course Title
Thesis
Credits Hours
1 - 99
College
College of Business Administration
Department
Kenneth G Dixon School of Accounting
TAX7919 - Research
Course Title
Research
Credits Hours
1 - 99
College
College of Business Administration
Department
Kenneth G Dixon School of Accounting

TAX7939 - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Business Administration
Department
Kenneth G Dixon School of Accounting

THE - Theatre

THE5205 - American Theatre
Course Title
American Theatre
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- THE 5910, and MA or MFA Theatre Graduate.
Course Description
Examination of performance and historical perspectives of American drama.
College
College of Arts and Humanities
Department
Department of Theatre
Terms of Offering
Spring
THE5215 - Global Theatre

Course Title
Global Theatre

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into the MFA/MA Theatre programs or C.I.

Course Description
Theatrical arts and traditions of various countries with an emphasis on non-western countries.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Occasional

THE5237 - Cultural Diversity in Theatre

Course Title
Cultural Diversity in Theatre

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into the MFA/MA Theatre programs or C.I.

Course Description
Commonality of human experience among various groups through the study of dramatic literature.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Occasional
THE5248 - Musical Theatre in History

Course Title
Musical Theatre in History

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MFA Musical Theatre Program.

Course Description
A chronological study of musical theatre from early Viennese operetta to the musicals of the modern age. Course will emphasize the work of composers, librettists, and lyricists as well as representative masterworks of a variety of genre. Emphasis will be placed upon historical trends and theatrical viability.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Fall

THE5288 - Period Costumes, Architecture and Decor I

Course Title
Period Costumes, Architecture and Decor I

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into Theatre MFA Design track.

Course Description
Costumes, architecture and decor from antiquity to the renaissance.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Fall
THE5289 - Period Costumes, Architecture and Decor II

Course Title
Period Costumes, Architecture and Decor II

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• THE 5288.

Course Description
Costumes, architecture and decor from the Renaissance to present.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring

THE5307 - Contemporary Theatre Practice

Course Title
Contemporary Theatre Practice

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• THE 3311, THE 3312, THE 3313, Restricted to Theatre majors or departmental consent.

Course Description
Contemporary trends in plays and theatre production in the late 20th century.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring
THE5385 - Dramatic Literature for Children

Course Title
Dramatic Literature for Children

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MFA graduate program or C.I.

Course Description
An in-depth study of the growth and development of dramatic literature for children.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Even Fall

THE5425 - Women in Theatre

Course Title
Women in Theatre

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into the MFA/MA Theatre programs or C.I.

Course Description
An overview of women's contributions to theatre.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Occasional
THE5545 - Theatre for Social Change

Course Title
Theatre for Social Change

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into the MFA/MA Theatre programs or C.I.

Course Description
Theatre activists' impact on theatrical art forms.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Occasional

THE5677 - Health and Wellness for the Performing Artist

Course Title
Health and Wellness for the Performing Artist

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Theatre graduate programs or C.I.

Course Description
Focus on performing artists' health and related topics.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring
THE5910 - Research Methods in Theatre

Course Title
Research Methods in Theatre

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- MFA and MA in Theatre.

Course Description
Practice knowledge, skills and techniques needed by students to conduct research to include organization, styles, footnotes, and bibliographic forms.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Fall

THE5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Theatre

THE5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Theatre
THE5945L - Theatre Practicum I

Course Title
Theatre Practicum I

Credits Hours
1

Lab/Studio/Field Work Hours
20

Prerequisites
- Graduate status or C.I.

Course Description
A laboratory course designed to develop students' practical working knowledge in Theatre.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Occasional

THE5946L - Theatre Practicum II

Course Title
Theatre Practicum II

Credits Hours
1

Lab/Studio/Field Work Hours
20

Prerequisites
- Admission into the graduate program, Theatre Practicum I.

Course Description
A laboratory course designed to develop students' practical working knowledge in theatre.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Occasional
THE5949 - Cooperative Education in Theatre

Course Title
Cooperative Education in Theatre

Credits Hours
0 - 99

College
College of Arts and Humanities

Department
Department of Theatre

THE5957 - Study Abroad

Course Title
Study Abroad

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Theatre

THE6086C - Careers in Professional Theatre

Course Title
Careers in Professional Theatre

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
Admission to the graduate program in Theatre or C.I.

Course Description
Practical courses focusing on job search skills and other aspects of marketing yourself.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring
THE6308 - Script and Score Analysis

Course Title
Script and Score Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to MFA Musical Theatre program.

Course Description
Representative works from the musical theatre repertoire analyzed as dramatic and musical literature.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Fall

THE6507 - Dramatic Theory and Criticism

Course Title
Dramatic Theory and Criticism

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission into Theatre graduate program and research methods course.

Course Description
Examination of principles of dramatic criticism from Aristotle to the present day.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Fall
THE6726 - Advanced TYA Seminar

Course Title
Advanced TYA Seminar

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• THE 5910 and THE 6756.

Course Description
Historical, theoretical, and international contexts shaping the field of Theatre for Young Audiences.

College
College of Arts and Humanities

Department
Department of Theatre

THE6756 - Methods of Teaching Drama

Course Title
Methods of Teaching Drama

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
• Admission to Theatre graduate program or C.I.

Course Description
Methods of teaching drama in contained classroom settings to youth.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Fall

THE6908 - Independent Study

Course Title
Independent Study

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Theatre
THE6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre

THE6918 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre

THE6938C - ST: Themed Experience Show Writing
Course Title
ST: Themed Experience Show Writing
Credits Hours
3
Lab/Studio/Field Work Hours
3
Prerequisites
- TPA 6187 or C.I.
Course Description
Students learn to become versatile storytellers by exploring the process and methodology of show writing for theme parks, attractions, entertainment, immersive experiences, and exhibits.
College
College of Arts and Humanities
Department
Department of Theatre
THE6946 - Internship

Course Title
Internship

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Theatre

THE6947L - Theatre Practicum III

Course Title
Theatre Practicum III

Credits Hours
1

Lab/Studio/Field Work Hours
20

Prerequisites
• Admission into the graduate program, Theatre Practicum II.

Course Description
A laboratory course designed to develop students' practical working knowledge in theatre.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Occasional
THE6948 - Professional Internship
Course Title
Professional Internship
Credits Hours
4
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to the MFA Acting program.
Course Description
Field work as company members of the Orlando Shakespeare Theatre.
College
College of Arts and Humanities
Department
Department of Theatre
Terms of Offering
Even Fall
Odd Spring

THE6949 - Cooperative Education in Theatre
Course Title
Cooperative Education in Theatre
Credits Hours
0 - 99
College
College of Arts and Humanities
Department
Department of Theatre

THE6958 - Study Abroad
Course Title
Study Abroad
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre
THE6971 - Thesis
Course Title
Thesis
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre

THE6973 - Thesis-Specialist
Course Title
Thesis-Specialist
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre

TPA - Theatre Production and Administration

TPA5029C - Lighting Design Studio
Course Title
Lighting Design Studio
Credits Hours
3
Lab/Studio/Field Work Hours
2
Prerequisites
- TPA 5042C and TPA 5062C.
Course Description
Advanced work in the process of designing light for the stage with an emphasis on the use of light as artistic expression.
College
College of Arts and Humanities
Department
Department of Theatre
Terms of Offering
Occasional
TPA5042C - Costume Design Studio

Course Title
Costume Design Studio

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to the graduate program in Theatre or C.I.

Course Description
Project oriented course in the advance study of Costume Design.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Occasional

TPA5062C - Scene Design Studio

Course Title
Scene Design Studio

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- Graduate status or C.I.

Course Description
Advanced work in the conceptualization and communication of scenic designs for the theatre.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring
TPA5081C - Design Concepts for Youth Theatre

**Course Title**
Design Concepts for Youth Theatre

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Admission to the graduate program in Theatre or C.I.

**Course Description**
A study of design elements (lighting, costume, set) as they apply to youth theatre.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Odd Spring

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TPA5085C - Design Seminar for Theatre

**Course Title**
Design Seminar for Theatre

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission into Theatre MFA Design track.

**Course Description**
Scenic, costume, lighting and sound design for theatre.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Occasional
TPA5095C - Rendering for Theatre I

Course Title
Rendering for Theatre I

Credits Hours
1

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to the graduate program in Theatre or C.I.

Course Description
Traditional visual communication skills necessary for scenic, costume, and lighting design.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Fall

TPA5175C - Rendering for Theatre II

Course Title
Rendering for Theatre II

Credits Hours
1

Lab/Studio/Field Work Hours
1

Prerequisites
- TPA 5095C.

Course Description
Software and technology available for visual communication and documentation.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring
TPA5345C - 2D Computer Assisted Design for Theatre

**Course Title**
2D Computer Assisted Design for Theatre

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission into the Theatre MFA Design track.

**Course Description**
Two-Dimensional computer drafting and editing techniques applicable to theatre design.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Occasional

TPA5346C - 3D Modeling for Theatre

**Course Title**
3D Modeling for Theatre

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- TPA 5345C.

**Course Description**
Three-dimensional computer modeling and editing techniques applicable for theatre design.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Occasional
TPA5405 - Theatre Management

Course Title
Theatre Management

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Study of university, community and professional theatre management with special attention to the principles of management to include management skills/function and organizational systems/performance as they relate to theatre organizations/institutions.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Even Fall

TPA5885C - Puppetry

Course Title
Puppetry

Credits Hours
2

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to MFA graduate program or C.I.

Course Description
Puppetry as an art form in design and performance.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Odd Spring

Current Fee Per Student
$30.00
TPA5917 - Directed Research
Course Title
Directed Research
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre

TPA5937C - Special Topics
Course Title
Special Topics
Credits Hours
3
College
College of Arts and Humanities
Department
Department of Theatre

TPA5946C - Design Practicum I
Course Title
Design Practicum I
Credits Hours
1
Lab/Studio/Field Work Hours
20
Prerequisites
- Admission into the MFA Design program.
Course Description
Practical experience as a member of the production team as a prop master or assistant scenic, costume, lighting, or sound designer.
College
College of Arts and Humanities
Department
Department of Theatre
Terms of Offering
Occasional
TPA5949 - Cooperative Education in Theatre Production and Administration

**Course Title**
Cooperative Education in Theatre Production and Administration

**Credits Hours**
0 - 99

**College**
College of Arts and Humanities

**Department**
Department of Theatre

TPA5949C - Design Practicum II

**Course Title**
Design Practicum II

**Credits Hours**
1

**Lab/Studio/Field Work Hours**
20

**Prerequisites**
- Admission into the graduate program and TPA 5946C or C.I.

**Course Description**
Advanced work in the practical application of Properties and/or Design for the Theatre.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Occasional

TPA5957 - Study Abroad

**Course Title**
Study Abroad

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Theatre
TPA6087C - Advanced Design Seminar for Theatre

Course Title
Advanced Design Seminar for Theatre

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- TPA 5085C.

Course Description
Continuation of Design Seminar for Theatre.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring

TPA6096C - Advanced Rendering and Modeling for Theatre I

Course Title
Advanced Rendering and Modeling for Theatre I

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- TPA 5095C.

Course Description
Technology relating to visual communication as well as 3 dimensional communication tools. May be used in the degree program a maximum of 3 times.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Fall
TPA6158 - Small Project Studio

Course Title
Small Project Studio

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TPA 6187: Themed Experience Seminar or C.I.

Course Description
Concept and design of small capacity themed projects such as kiosks, food carts, counter sales and queue engagement.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring

TPA6186 - Immersive Experience Studio

Course Title
Immersive Experience Studio

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TPA 6158: Small Project Studio or C.I.

Course Description
Mid-sized themed experiences designed to engage guests for 1-4 hours. Students will design space, guest flow, timing, and themed interaction.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring
Fall
TPA6187 - Themed Experience Seminar
Course Title
Themed Experience Seminar
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- Graduate Standing or C.I.
Course Description
In-depth study of the creation, concepts and practices that drive the themed experience and an overview of the industry and art form. Work will culminate in a collaborative studio project.
College
College of Arts and Humanities
Department
Department of Theatre
Terms of Offering
Fall

TPA6188 - Visualizing Themed Environments
Course Title
Visualizing Themed Environments
Credits Hours
3
Lab/Studio/Field Work Hours
0
Prerequisites
- TPA 6187: Themed Experience Seminar or C.I.
Course Description
Fundamentals of virtual placemaking and creating 3-D interactive environments through the utilization of 3-D software and virtual reality tools.
College
College of Arts and Humanities
Department
Department of Theatre
Terms of Offering
Fall
TPA6437 - Careers in Themed Experience

Course Title
Careers in Themed Experience

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TPA 6186: Immersive Experience Studio or C.I.

Course Description
Development of professional goals, knowledge, marketing materials, and skills for the active themed experience industry professional.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring

TPA6908 - Independent Study

Course Title
Independent Study

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Theatre

TPA6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Theatre
TPA6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Theatre

TPA6921 - Collaborative Project Studio

Course Title
Collaborative Project Studio

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TPA 6186: Immersive Experience Studio or C.I.

Course Description
Students work collaboratively on a large scale themed experience concept and design. Coursework will emulate a professional production environment.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring

TPA6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Theatre
TPA6946 - Internship  
**Course Title**  
Internship  

**Credits Hours**  
1 - 99  

**College**  
College of Arts and Humanities  

**Department**  
Department of Theatre  

TPA6947 - Design Practicum III  
**Course Title**  
Design Practicum III  

**Credits Hours**  
1  

**Lab/Studio/Field Work Hours**  
20  

**Prerequisites**  
- TPA 5949C.  

**Course Description**  
Practical experience as a member of the production team as a scenic, costume, lighting, or sound designer in an area not previously designed.  

**College**  
College of Arts and Humanities  

**Department**  
Department of Theatre  

**Terms of Offering**  
Occasional
TPA6948L - Design Practicum IV

Course Title
Design Practicum IV

Credits Hours
1

Lab/Studio/Field Work Hours
20

Prerequisites
- MFA Design Candidate, Design Practicum III.

Course Description
Practical experience as a member of the production team as a scenic, costume, lighting, or sound designer in an area not previously designed.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Occasional

TPA6958 - Study Abroad

Course Title
Study Abroad

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Theatre

TPA6971 - Treatise (Thesis or Research Report)

Course Title
Treatise (Thesis or Research Report)

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Theatre
TPA6973 - Thesis-Specialist

Course Title
Thesis-Specialist

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Theatre

TPP - Theatre Performance and Performance Training

TPP5087C - Theatre Careers in Performance

Course Title
Theatre Careers in Performance

Credits Hours
3

Lab/Studio/Field Work Hours
2

Course Description
Admission to the MFA and MA programs in Theatre. Techniques needed to secure employment in performance or related fields.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Even Spring
TPP5125C - Improvisation Studio

**Course Title**
Improvisation Studio

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Acting for Youth Theatre.

**Course Description**
A study of spontaneous dramatic play and theatre exercises designed to develop self-discipline, creative freedom and resources for the stage and classroom.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Odd Fall

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TPP5156C - Acting Studio I

**Course Title**
Acting Studio I

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- Admission to the MFA Acting program.

**Course Description**
An advanced scene study course using Shakespeare's canon to explore scene analysis, character development, and application of acting techniques.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Even Fall
TPP5157C - Acting Studio II

Course Title
Acting Studio II

Credits Hours
3

Lab/Studio/Field Work Hours
2

Prerequisites
- TPP 5156C.

Course Description
Advanced scene study course applying acting methodologies to the works of modern playwrights.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Odd Spring

TPP5246C - Circus Arts

Course Title
Circus Arts

Credits Hours
2

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to Theatre graduate program or C.I

Course Description
Circus skills and history.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Even Spring
TPP5248C - Storytelling as a Theatrical Art Form

Course Title
Storytelling as a Theatrical Art Form

Credits Hours
2

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to Theatre graduate program or C.I.

Course Description
Application of storytelling as an art form.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring

TPP5273 - Musical Theatre Acting I

Course Title
Musical Theatre Acting I

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- TPP 5157C.

Course Description
Integrated study in musical theatre acting, singing and movement applied to musical theatre performance, direction and choreography; emphasizing developing skills in textual and musical interpretation.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Occasional
TPP5278C - Musical Theatre Lab

Course Title
Musical Theatre Lab

Credits Hours
1

Lab/Studio/Field Work Hours
1

Prerequisites
- TPP 5157C.

Course Description
Practical course in developing musical theatre skills for the actor.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring

TPP5289C - Acting Methodologies

Course Title
Acting Methodologies

Credits Hours
2

Lab/Studio/Field Work Hours
3

Prerequisites
- Admission to the graduate program in Theatre or C.I.

Course Description
Approaches to acting.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Even Fall
TPP5386C - Directing for Young Audiences

**Course Title**
Directing for Young Audiences

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- THE 5910 and THE 5385.

**Course Description**
Study of the principles, procedures, and practices of stage direction as it applies to theatre for young audiences.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Odd Spring

TPP5515 - Movement Studio I

**Course Title**
Movement Studio I

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to MFA Performance Program.

**Course Description**
Graduate level course in principles and methods of movement for the stage focusing on relaxation, centering, increased physical control, and physical development of a character.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Fall
TPP5516C - Movement Studio II

Course Title
Movement Studio II

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- TPP 5515 or C.I.

Course Description
Principles and methods of movement for the stage focusing on gaining specific knowledge and skills in period styles of movement and basic unarmed combat.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring

TPP5554C - Musical Theatre Dance I

Course Title
Musical Theatre Dance I

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to MA or MFA Musical Theatre program

Course Description
Advanced dance study with particular emphasis on the development of principles of alignment, coordination, isolation, and sequencing.

College
College of Arts and Humanities

Department
Department of Theatre
TPP5555C - Musical Theatre Dance II

Course Title
Musical Theatre Dance II

Credits Hours
2

Lab/Studio/Field Work Hours
4

Prerequisites
- TPP 5554C.

Course Description
Advanced dance study with particular emphasis on the development and expression of characterization in dance.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring

TPP5715C - Stage Voice I

Course Title
Stage Voice I

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to the MFA Acting program.

Course Description
Fundamentals of breathing and vocal production. Combination of various voice methodologies, focusing on the relaxation of physical tension and articulation.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Even Fall
TPP5716C - Stage Voice II

Course Title
Stage Voice II

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to MFA Acting program.

Course Description
Continuation of Stage Voice I, including Skinner's IPA and application of physical vocal techniques to longer texts.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Odd Spring

TPP5754 - Musical Theatre Voice I

Course Title
Musical Theatre Voice I

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- Admission to MA or MFA Musical Theatre program or C.I.

Course Description
Voice study devoted to the diagnosis and development of the singing voice and its application to musical theatre performance placing particular emphasis upon vocal technique.

College
College of Arts and Humanities

Department
Department of Theatre
TPP5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Theatre

TPP5935C - Contemporary Practices in Youth Theatre

Course Title
Contemporary Practices in Youth Theatre

Credits Hours
2

Lab/Studio/Field Work Hours
2

Prerequisites
- Admission to MFA graduate program or C.I.

Course Description
Investigation of a particular subject in youth theatre. May be used in the degree program a maximum of 5 times.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Odd Spring

TPP5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Arts and Humanities

Department
Department of Theatre
TPP5949 - Cooperative Education in Theatre Performance and Training

**Course Title**
Cooperative Education in Theatre Performance and Training

**Credits Hours**
0 - 99

**College**
College of Arts and Humanities

**Department**
Department of Theatre

TPP5957 - Study Abroad

**Course Title**
Study Abroad

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Theatre

TPP6146C - Acting Studio III

**Course Title**
Acting Studio III

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
2

**Prerequisites**
- TPP 5157C Acting Studio II.

**Course Description**
An advanced acting course applying acting methodologies to the works of classical playwrights and a variety of styles.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Odd Fall
TPP6186C - Advanced Scene Study

**Course Title**
Advanced Scene Study

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission to MFA Acting program.

**Course Description**
Acting techniques related to all forms of theatre including TYA, commercial, and new play development.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Even Fall

TPP6216C - Theatre for Young Audiences Tour

**Course Title**
Theatre for Young Audiences Tour

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
6

**Prerequisites**
- Admission to the graduate program in Theatre or C.I.

**Course Description**
Performance, administration and technical work on a touring production for young audiences.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Even Spring

**Current Fee Per Student**
$45.00
TPP6247 - Theatre for Social Change

Course Title
Theatre for Social Change

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Methods of Teaching Drama.

Course Description
The study and application of interactive theatre techniques to effect change related to social, cultural, interpersonal and personal issues.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Even Spring

TPP6267 - Acting Studio IV

Course Title
Acting Studio IV

Credits Hours
2

Lab/Studio/Field Work Hours
1

Prerequisites
- TPP 6146.

Course Description
An advanced acting class that focuses on the technical and practical aspects of acting for film and television.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Even Spring
TPP6274 - Musical Theatre Acting II

Course Title
Musical Theatre Acting II

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- TPP 5273.

Course Description
Advanced and integrated study with emphasis on the development of skills in musical theatre characterization.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring

TPP6279 - Musical Theatre Master Class

Course Title
Musical Theatre Master Class

Credits Hours
2

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to Theatre MFA Musical Theatre Track.

Course Description
Master classes conducted by permanent staff members and guest artists of the Seaside Music Theatre Company.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Fall
TPP6344 - Musical Theatre Directing

**Course Title**
Musical Theatre Directing

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Admission to MFA Musical Theatre program.

**Course Description**
A comprehensive study and practical application of the unique problems of directing for the musical stage.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Spring

TPP6517 - Movement Studio III

**Course Title**
Movement Studio III

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- TPP 5516C

**Course Description**
Continuation of principles/methods of movement for the stage covered in Movement Studio II with focus on gaining specific skills in dance for musical theatre/period plays.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Fall
TPP6518C - Movement Studio IV

Course Title
Movement Studio IV

Credits Hours
2

Lab/Studio/Field Work Hours
3

Prerequisites
- Movement Studio III.

Course Description
Covers the principles/methods of armed/unarmed combat for the stage, including hand to hand, foil, epee, broadsword, sabre, rapier, dagger, and quarter staff combat.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Spring

TPP6556C - Musical Theatre Dance III

Course Title
Musical Theatre Dance III

Credits Hours
2

Lab/Studio/Field Work Hours
4

Prerequisites
- TPP 5555C.

Course Description
Advanced dance study with particular emphasis on the development of jazz and tap technique.

College
College of Arts and Humanities

Department
Department of Theatre

Terms of Offering
Fall
TPP6557C - Musical Theatre Dance IV  
**Course Title**  
Musical Theatre Dance IV  
**Credits Hours**  
2  
**Lab/Studio/Field Work Hours**  
4  
**Prerequisites**  
- TPP 6556C.  
**Course Description**  
Advanced dance study with particular emphasis on the development of musical theater dance style and choreography.  
**College**  
College of Arts and Humanities  
**Department**  
Department of Theatre  
**Terms of Offering**  
Spring

TPP6686 - Playwriting for Young Audiences  
**Course Title**  
Playwriting for Young Audiences  
**Credits Hours**  
3  
**Lab/Studio/Field Work Hours**  
0  
**Prerequisites**  
- Dramatic Literature for Children.  
**Course Description**  
Practical experience in the creative process of playwriting for young audiences.  
**College**  
College of Arts and Humanities  
**Department**  
Department of Theatre  
**Terms of Offering**  
Odd Fall
**TPP6717C - Stage Voice III**

**Course Title**
Stage Voice III

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
1

**Prerequisites**
- Admission to MFA Acting program.

**Course Description**
Continuation of Stage Voice I and II, focusing on Shakespeare's use of language.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Odd Fall

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**TPP6718C - Stage Voice IV**

**Course Title**
Stage Voice IV

**Credits Hours**
2

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Stage Voice III.

**Course Description**
A practical study of American and European dialects with application of Skinner and Lessac transcription.

**College**
College of Arts and Humanities

**Department**
Department of Theatre

**Terms of Offering**
Spring
TPP6755 - Musical Theatre Voice II
Course Title
Musical Theatre Voice II
Credits Hours
2
Lab/Studio/Field Work Hours
1
Prerequisites
- Admission to MA or MFA Musical Theatre program or C.I.
Course Description
Advanced voice study placing particular emphasis upon textual analysis and characterization.
College
College of Arts and Humanities
Department
Department of Theatre

TPP6756 - Musical Theatre Voice III
Course Title
Musical Theatre Voice III
Credits Hours
2
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to MFA Musical Theatre program.
Course Description
Continuation of Musical Theatre Voice II placing particular emphasis upon knowledge of musical theatre repertoire and its application to the history of the art form.
College
College of Arts and Humanities
Department
Department of Theatre
Terms of Offering
Fall
TPP6757 - Musical Theatre Voice IV
Course Title
Musical Theatre Voice IV
Credits Hours
2
Lab/Studio/Field Work Hours
0
Prerequisites
- Admission to MFA Musical Theatre program.
Course Description
Continuation of Musical Theatre Voice III placing particular emphasis on synthesizing scene-to-song vocal production.
College
College of Arts and Humanities
Department
Department of Theatre
Terms of Offering
Spring

TPP6908 - Independent Study
Course Title
Independent Study
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre

TPP6909 - Research Report
Course Title
Research Report
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre
TPP6918 - Directed Research  
**Course Title**  
Directed Research  

**Credits Hours**  
1 - 99  

**College**  
College of Arts and Humanities  

**Department**  
Department of Theatre  

TPP6933 - Acting Studio V  
**Course Title**  
Acting Studio V  

**Credits Hours**  
2  

**Lab/Studio/Field Work Hours**  
1  

**Course Description**  
TPP 6267. An advanced acting course that will explore and develop specialty areas of actor training.  

**College**  
College of Arts and Humanities  

**Department**  
Department of Theatre  

**Terms of Offering**  
Odd Spring  

TPP6938 - Special Topics  
**Course Title**  
Special Topics  

**Credits Hours**  
3  

**College**  
College of Arts and Humanities  

**Department**  
Department of Theatre  

2021-2022 Graduate Catalog
TPP6946 - Internship
Course Title
Internship
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre

TPP6958 - Study Abroad
Course Title
Study Abroad
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre

TPP6971 - Treatise (Thesis or Research Report).
Course Title
Treatise (Thesis or Research Report).
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre

TPP6973 - Thesis-Specialist
Course Title
Thesis-Specialist
Credits Hours
1 - 99
College
College of Arts and Humanities
Department
Department of Theatre

TSL - Teaching Second Language
TSL5085 - Teaching Language Minority Students in K-12 Classrooms

Course Title
Teaching Language Minority Students in K-12 Classrooms

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to College of Education Master of Arts Program or C.I.

Course Description
Teaching K-12 limited English proficient (LEP) students. Florida standards regarding cross-cultural communication, ESOL curriculum, and materials, ESOL methodology, testing and evaluation of ESOL students, applied linguistics.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering

TSL5325 - ESOL Strategies

Course Title
ESOL Strategies

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate status or senior standing or C.I.

Course Description
This course will survey cross-cultural communication and understanding, testing and evaluation, curriculum and methods of teaching ESOL to meet the needs of limited English proficient students.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional
TSL5345 - Methods of ESOL Teaching

Course Title
Methods of ESOL Teaching

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
This course is designed to develop understanding, knowledge and skills of the current methods used in the teaching of ESOL.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall

TSL5376 - Reading and Writing in a Second Language

Course Title
Reading and Writing in a Second Language

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Theoretical and pedagogical approaches to ESOL reading and writing.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional
TSL5380 - Computers and Technology for ESOL

Course Title
Computers and Technology for ESOL

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Emphasizes research in computer assisted language learning, as well as design and evaluation of software and websites for learning English as a second language.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Even Summer

TSL5525 - ESOL Cultural Diversity

Course Title
ESOL Cultural Diversity

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
This course is designed to identify major cultural groups represented by the LEP population in Florida schools and to understand their special needs.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Summer
TSL5601 - Second Language Vocabulary Learning

Course Title
Second Language Vocabulary Learning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Considers lexical issues encountered by second language learners; explores best practices for learners and their teachers and examines current research for pedagogical application.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional

TSL5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

TSL5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Community Innovation and Education

Department
School of Teacher Education
TSL5940 - Issues in TEFL

**Course Title**
Issues in TEFL

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate status or senior standing or C.I.

**Course Description**
Address issues specifically related to TEFL, such as materials adaptation, teaching in multi-level classrooms, learning styles, cultural issues, and curriculum syllabus design.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Spring

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TSL6142 - Critical Approaches to ESOL

**Course Title**
Critical Approaches to ESOL

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Emphasis placed on current research in second language acquisition as it relates to the development of ESOL curriculum and materials.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Fall
TSL6143 - Curriculum and Instruction in Dual Language Programs

Course Title
Curriculum and Instruction in Dual Language Programs

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
This course is an introduction to methods and research in teaching of literacy to all bilingual learners, using the home language and new language.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring

TSL6250 - Applied Linguistics in ESOL

Course Title
Applied Linguistics in ESOL

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Applying linguistics, psycholinguistics, and sociolinguistics to teaching English as a second language with emphasis on pronunciation, intonation, structural analysis, morphophonemics, and decoding from print to sound.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Spring
TSL6252 - Sociolinguistics for ESOL

**Course Title**
Sociolinguistics for ESOL

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Core concepts in the field of sociolinguistics as it relates to the teaching of English as a second language.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Fall

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TSL6350 - Grammar for ESOL Teachers

**Course Title**
Grammar for ESOL Teachers

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Emphasis on English grammar for English as a Second Language teachers. Includes analytical and theoretical background, but primarily examines problematic grammar points for ESOL learners.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Occasional
TSL6374 - TESOL Listening, Speaking and Pronunciation

**Course Title**
TESOL Listening, Speaking and Pronunciation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
Graduate standing or C.I. Applications of second language acquisition theories, principles, and current research as they relate to the teaching of ESL listening, speaking and pronunciation.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Even Fall

TSL6377 - Bilingualism, Multiculturalism, and Biliteracy in the Dual Language Classroom

**Course Title**
Bilingualism, Multiculturalism, and Biliteracy in the Dual Language Classroom

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
This course is an introduction to methods and research in teaching of literacy to all bilingual learners, using the home language and new language.

**College**
College of Community Innovation and Education

**Department**
School of Teacher Education

**Terms of Offering**
Fall
TSL6379 - Second Language Literacy

Course Title
Second Language Literacy

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TSL 5085 or TSL 5345 AND TSL 6250.

Course Description
An overview of literacy issues and literacy instruction for second language learners.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Even Fall

TSL6440 - Assessment Issues in TESOL

Course Title
Assessment Issues in TESOL

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
This course provides for the development of sound assessment knowledge necessary to prepare students to apply second language assessment theories, principles, and current research.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Even Fall
Even Spring
TSL6442 - Fundamentals of Standardized Assessment in TESOL

**Course Title**

Fundamentals of Standardized Assessment in TESOL

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Course Description**

Graduate standing or C.I. This course will address the standardized assessment practices in TESOL as well as the instructional and research implications.

**College**

College of Arts and Humanities

**Department**

Department of Modern Languages and Literatures

**Terms of Offering**

Fall

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TSL6443 - Assessment in Dual Language Programs

**Course Title**

Assessment in Dual Language Programs

**Credits Hours**

3

**Lab/Studio/Field Work Hours**

0

**Prerequisites**

- Graduate Standing or C.I.

**Course Description**

This course provides a foundation for assessing language and academic proficiency in dual language programs.

**College**

College of Arts and Humanities

**Department**

Department of Modern Languages and Literatures

**Terms of Offering**

Spring
TSL6526 - Interdependencies of Language, Culture, and Education for Dual Language Learners

Course Title
Interdependencies of Language, Culture, and Education for Dual Language Learners

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate Standing or C.I.

Course Description
This course focuses on the interdependencies of language, culture, and education as they relate to dual language learners.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Summer

TSL6600 - Second Language Vocabulary Acquisition

Course Title
Second Language Vocabulary Acquisition

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I. and one of the following graduate research courses: TSL 6640, EDF 6481, EDF 7475, EDF 7403.

Course Description
Research on how learners acquire new vocabulary in a second language. Course requires extensive reading as well as original field research.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Even Spring
TSL6640 - Research in Second Language

Course Title
Research in Second Language

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
This course focuses on research into language learning processes which serves as a knowledge base for effective teaching of language-minority students.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Fall

TSL6642 - Issues in Second Language Acquisition

Course Title
Issues in Second Language Acquisition

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TSL 6250, TSL 6640.

Course Description
Focuses on second language acquisition theories, principles, and current research as they relate to language-minority students acquiring English as a Second Foreign Language.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Even Spring
TSL6643 - Diachronic Analysis of Second Language Acquisition Processes

**Course Title**
Diachronic Analysis of Second Language Acquisition Processes

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or C.I.

**Course Description**
Analysis of current research on second language acquisition (SLA) processes across the life span.

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

**Terms of Offering**
Odd Fall

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TSL6909 - Research Report

**Course Title**
Research Report

**Credits Hours**
1 - 99

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures

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TSL6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Arts and Humanities

**Department**
Department of Modern Languages and Literatures
TSL6940 - ESOL Practicum

Course Title
ESOL Practicum

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Techniques and strategies for creating effective lesson plans for ESOL classroom activities.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Every Semester

TSL6971 - Thesis

Course Title
Thesis

Credits Hours
1 - 99

Course Description
This course is intended for graduate students in the TESOL MA program who wish to exercise the option of writing a thesis. May be repeated for credit.

College
College of Arts and Humanities

Department
Department of Modern Languages and Literatures

Terms of Offering
Occasional
TSL7006 - Second Language Teacher Preparation

Course Title
Second Language Teacher Preparation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Admission to TESOL Ph.D. track or C.I.

Course Description
Examines the history of general and second language teacher preparation and provides a theoretical and practical rationale for the development of knowledge, skills, and dispositions necessary to prepare ESL and other teachers of English learners.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Even Spring

TSL7948 - Doctoral Internship

Course Title
Doctoral Internship

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Graduate standing or C.I.

Course Description
Students work with faculty members to develop teaching competency and research focus through a professional teaching experience. May be used in the degree program a maximum of 2 times.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Spring
Fall
TSL7980 - Dissertation Research

Course Title
Dissertation Research

Credits Hours
1 - 99

Prerequisites
- Student must be in candidacy.

Course Description
This is a dissertation research course. May be repeated for credit.

College
College of Community Innovation and Education

Department
School of Teacher Education

Terms of Offering
Every Semester

TTE - Transportation and Traffic Engineering

TTE5204 - Traffic Engineering

Course Title
Traffic Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TTE 3810 or C.I.

Course Description
Study of operator and vehicle characteristics, and design for street capacity, signals, signs, and markings.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional
TTE5531 - Active Mobility and Technologies: Synergy and Challenges

**Course Title**
Active Mobility and Technologies: Synergy and Challenges

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CGN 5555 or C.I.

**Course Description**
The course explores the impact of information technologies on sustainable mobility and the transformation towards complete streets.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Fall

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TTE5532 - Policy Aspects of Smart City Transportation

**Course Title**
Policy Aspects of Smart City Transportation

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- CGN 5555 or C.I.

**Course Description**
Provide an overview of the policy aspects of transportation in Smart Cities. Introduce policy implications of Big Data and Analytics in a Smart Cities.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Spring
TTE5805 - Geometric Design of Transportation Systems

Course Title
Geometric Design of Transportation Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites

- TTE 3810 or C.I.

Course Description
Study of highway geometric design in the engineering of transportation systems.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

TTE5835 - Pavement Engineering

Course Title
Pavement Engineering

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
EGN 3331C, CGN 3501C, CEG 4011C. Materials, analysis, evaluation, and management of pavement and pavement systems.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Even Fall

TTE5917 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering
TTE5937 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

TTE6205 - Highway Capacity

Course Title
Highway Capacity

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TTE 6256 or TTE 5204 or C.I.

Course Description
Highway capacity for all functional classes of highway. Traffic signalization including traffic studies, warrants, cycle length, timing, phasing and coordination.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Fall
TTE6256 - Traffic Operations

Course Title
Traffic Operations

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
TTE 4274 or C.I.

Course Description
Fundamentals of traffic flow theory and applications to traffic operations on highways and streets. Work on real life traffic operations project and report results.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Fall

TTE6270 - Intelligent Transportation Systems

Course Title
Intelligent Transportation Systems

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
TTE 6256 or TTE 5204 or C.I.

Course Description
Theories and applications of intelligent vehicle highway systems in transportation engineering.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Odd Spring
TTE6275 - Connected and Autonomous Vehicles

Course Title
Connected and Autonomous Vehicles

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TTE 3810 or C.I.

Course Description
Explain Connected, Automated and Autonomous vehicles' technologies and current and future applications, their expected benefits for transportation safety, operation, social and economic, and potential impact.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Spring

TTE6315 - Traffic Safety Analysis

Course Title
Traffic Safety Analysis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TTE 5805 or TTE 5204 or C.I.

Course Description
Understanding crash research concepts, and identifying factors contributing to traffic crash occurrence.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Spring
TTE6526 - Planning and Design of Airports

Course Title
Planning and Design of Airports

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
♦ C.I.

Course Description
Background of aviation and airport development, aircraft characteristics. Planning and design of airport components. Heliport and STOL ports and pavement and drainage design.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Occasional

TTE6533 - Mobility in Smart Cities: Technologies and Application Areas

Course Title
Mobility in Smart Cities: Technologies and Application Areas

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
♦ CGN 5555 or C.I.

Course Description
The course introduces students to research developments in intelligent transportation systems infrastructure with a focus on video-based data collection and networks connectivity.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Spring
TTE6608 - Algorithms and Models for Smart Cities

**Course Title**
Algorithms and Models for Smart Cities

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Course Description**
STA 5206 or C.I. Cities as complex systems, urban geo-location data collection and processing, data exploration and geo-visualization, classification techniques, urban mobility models, and urban networks.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Odd Fall

TTE6625 - Mass Transportation Systems

**Course Title**
Mass Transportation Systems

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- C.I.

**Course Description**
Planning, design, construction, operation, and administration of mass transportation systems.

**College**
College of Engineering and Computer Science

**Department**
Department of Civil, Environmental, and Construction Engineering

**Terms of Offering**
Occasional

2021-2022 Graduate Catalog
TTE6667 - Discrete Choice Modeling in Transportation

Course Title
Discrete Choice Modeling in Transportation

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- TTE 4274 or STA 5206(or equivalent) or C.I.

Course Description
Multivariate regression analysis, individual choice theory, random utility frameworks, ordered and unordered response models, maximum likelihood approaches, and recent advances in the field.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Odd Fall

TTE6909 - Research Report

Course Title
Research Report

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering
TTE6910 - Travel Technology and Analytics Capstone Course

Course Title
Travel Technology and Analytics Capstone Course

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Completion of TTA core courses (HMG 6710, HMG 6449, ESI 6251, TTE 6667, TTE 6608) or C.I. permission.

Course Description
Identification of problems and design, implementation, and evaluation of appropriate technological and analytical solutions to meet current and future needs in the global travel industry.

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

Terms of Offering
Spring

TTE6918 - Directed Research

Course Title
Directed Research

Credits Hours
1 - 99

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

TTE6938 - Special Topics

Course Title
Special Topics

Credits Hours
3

College
College of Engineering and Computer Science

Department
Department of Civil, Environmental, and Construction Engineering

URP - Urban and Regional Planning
URP6711 - Sustainable Transportation Planning

Course Title
Sustainable Transportation Planning

Credits Hours
3

Lab/Studio/Field Work Hours
0

Course Description
Admission to Master of Urban and Regional Planning program or C.I. Planning for multimodal transportation, including highway/automobile, public transit, pedestrian, bicycling and rail systems, to explore the social, economic and health implications to communities.

College
College of Community Innovation and Education

Department
School of Public Administration

Terms of Offering
Occasional

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WST - Women's Studies

WST5108 - Global Women in Crisis

Course Title
Global Women in Crisis

Credits Hours
3

Lab/Studio/Field Work Hours
0

Prerequisites
- Gradutate standing or C.I.

Course Description
Examines how crisis shapes women’s lives around the world through the lens of Feminist Theory from a global, multi-cultural perspective, combined with global feminist activism.

College
College of Arts and Humanities

Department
Program in Women’s and Gender Studies

Terms of Offering
Fall
WST5347 - Research in Women and Gender Studies

**Course Title**
Research in Women and Gender Studies

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing or senior standing, or C.I.

**Course Description**
To explore feminist research methodologies and investigate relationships among feminist theory, research, social change, and gender equality as experienced at the workforce in private, public and non-profit spheres.

**College**
College of Arts and Humanities

**Department**
Program in Women's and Gender Studies

**Terms of Offering**
Even Fall

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WST5601 - Theories in Gender Studies

**Course Title**
Theories in Gender Studies

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
0

**Prerequisites**
- Graduate standing, Gender Studies graduate certificate standing, or C.I.

**Course Description**
Foundational scholarship in gender studies, with emphasis on theoretical and interdisciplinary approaches to gender and sexuality.

**College**
College of Arts and Humanities

**Department**
Program in Women's and Gender Studies

**Terms of Offering**
Even Fall
WST5917 - Directed Research  
**Course Title**  
Directed Research  
**Credits Hours**  
1 - 99  
**College**  
College of Arts and Humanities  
**Department**  
Program in Women's and Gender Studies

WST5937 - Special Topics  
**Course Title**  
Special Topics  
**Credits Hours**  
3  
**College**  
College of Arts and Humanities  
**Department**  
Program in Women's and Gender Studies

WST5957 - Study Abroad  
**Course Title**  
Study Abroad  
**Credits Hours**  
1 - 99  
**College**  
College of Arts and Humanities  
**Department**  
Program in Women's and Gender Studies

ZOO - Zoology
ZOO5456C - Ichthyology

**Course Title**
Ichthyology

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
6

**Prerequisites**
- Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

**Course Description**
Introduction to the biology of the fishes, their classification, evolution, and life histories.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Even Fall

ZOO5463C - Herpetology

**Course Title**
Herpetology

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
4

**Prerequisites**
- Admission to the M.S. in Biology, Ph.D. in Conservation Biology, Certificate in Conservation Biology, PSM in Conservation Biology, or C.I.

**Course Description**
Introduction to the biology of the amphibians and reptiles, their classification, evolution, and life histories.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Odd Spring

**Current Fee Per Student**
$60.00
ZOO5475L - Field Ornithology

**Course Title**
Field Ornithology

**Credits Hours**
3

**Lab/Studio/Field Work Hours**
1

**Course Description**
A comprehensive introduction and appreciation for the evolutionary history, diversity, ecology, biology, and behavior of birds such as disciplines, evolutionary biology and psychology.

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Odd Fall

**Current Fee Per Student**
$30.00

ZOO5745C - Neuroanatomical Pathways and their Neurotransmitters

**Course Title**
Neuroanatomical Pathways and their Neurotransmitters

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Human/Comparative Anatomy, or Human/Animal Physiology or C.I.

**Course Description**
Fundamental concepts of both morphological and functional organization of the nervous system. Primary emphasis on human structure.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Occasional

**Current Fee Per Student**
$15.00
ZOO5748C - Clinical Neuroanatomy

Course Title
Clinical Neuroanatomy

Credits Hours
5

Lab/Studio/Field Work Hours
2

Prerequisites
- ZOO 3733C Human Anatomy.

Course Description
Provides the necessary knowledge to understanding the complexities of human nervous system, its normal and pathologic functions, relevant to practice of general medicine and/or neuroscientists.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Fall

ZOO5749C - Clinical Neuroscience

Course Title
Clinical Neuroscience

Credits Hours
5

Lab/Studio/Field Work Hours
2

Prerequisites
- ZOO 3733C and ZOO 3744, or ZOO 3733C and ZOO 4743C or ZOO 5748C, or equivalents.

Course Description
Clinically oriented teachings of neuroscience areas including selected topics in neuropathology, neuro-oncology, neuroimmunology, neuropharmacology, and neurodiagnostics.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Spring
ZOO5758C - Vertebrate Histology

**Course Title**
Vertebrate Histology

**Credits Hours**
4

**Lab/Studio/Field Work Hours**
3

**Prerequisites**
- Graduate standing and college-level Human Anatomy, Human Physiology or Introduction to Histology.

**Course Description**
Microanatomical detail plus appropriate developmental and functional considerations of major cell types, primary tissues, organs, and organ systems. Survey of modern animal-tissue microtechnique.

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences

**Terms of Offering**
Spring

ZOO5917 - Directed Research

**Course Title**
Directed Research

**Credits Hours**
1 - 99

**College**
College of Sciences

**Department**
Department of Biology

**Terms of Offering**
Fall

ZOO5937 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Medicine

**Department**
College of Medicine Burnett School of Biomedical Sciences
ZOO6737 - Clinically Oriented Human Anatomy

Course Title
Clinically Oriented Human Anatomy

Credits Hours
4

Lab/Studio/Field Work Hours
6

Prerequisites
- Human Anatomy ZOO 3733 or equivalent.

Course Description
Clinically Oriented Human Anatomy (COHA) is an advanced course focusing on integrated functional anatomy by means of problem-based learning and project-based learning.

College
College of Medicine

Department
College of Medicine Burnett School of Biomedical Sciences

Terms of Offering
Summer

ZOO6909 - Research Report

Course Title
Research Report

Credits Hours
1

College
College of Sciences

Department
Department of Biology

ZOO6918 - Directed Research

Course Title
Directed Research

Credits Hours
1

College
College of Sciences

Department
Department of Biology
ZOO6938 - Special Topics

**Course Title**
Special Topics

**Credits Hours**
3

**College**
College of Sciences

**Department**
Department of Biology